

# RIG SKID

Form 3160-3  
(August 1999)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

1a. Type of Work: ☒ DRILL ☐ REENTER

b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone

2. Name of Operator  
**KERR McGEE OIL & GAS ONSHORE LP**

3A. Address  
**1368 SOUTH 1200 EAST VERNAL, UT 84078**

3b. Phone No. (include area code)  
**(435) 781-7003**

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)  
At surface **NWNW, 494' FNL 609' FWL 622512X 40.670877**  
At proposed prod. Zone **44364034 -109.563338**

14. Distance in miles and direction from nearest town or post office\*  
**6.8 MILES SOUTHEAST OF OURAY, UTAH**

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)  
**494'**

16. No. of Acres in lease  
**79.6**

17. Spacing Unit dedicated to this well  
**79.6**

18. Distance from proposed\* location to nearest well, drilling, completed, applied for, on this lease, ft.  
**REFER TO TOPO C**

19. Proposed Depth  
**10,900**

20. BLM/BIA Bond No. on file  
**BIA #RLB0005239**

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
**4672' UNGRADED GL**

22. Approximate date work will start\*  
**ASAP**

23. Estimated duration  
**TO BE DETERMINED**

### 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office.
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized office.

25. Signature  
**Ramey Hoopes**  
Title  
**REGULATORY ANALYST**

Name (Printed/Typed)  
**RAMEY HOOPES**

Date  
**10/22/2008**

Approved by (Signature)  
**Bradley G. Hill**  
Title  
**ENVIRONMENTAL MANAGER**

Name (Printed/Typed)  
**BRADLEY G. HILL**  
Title  
**ENVIRONMENTAL MANAGER**

Date  
**11-05-08**

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

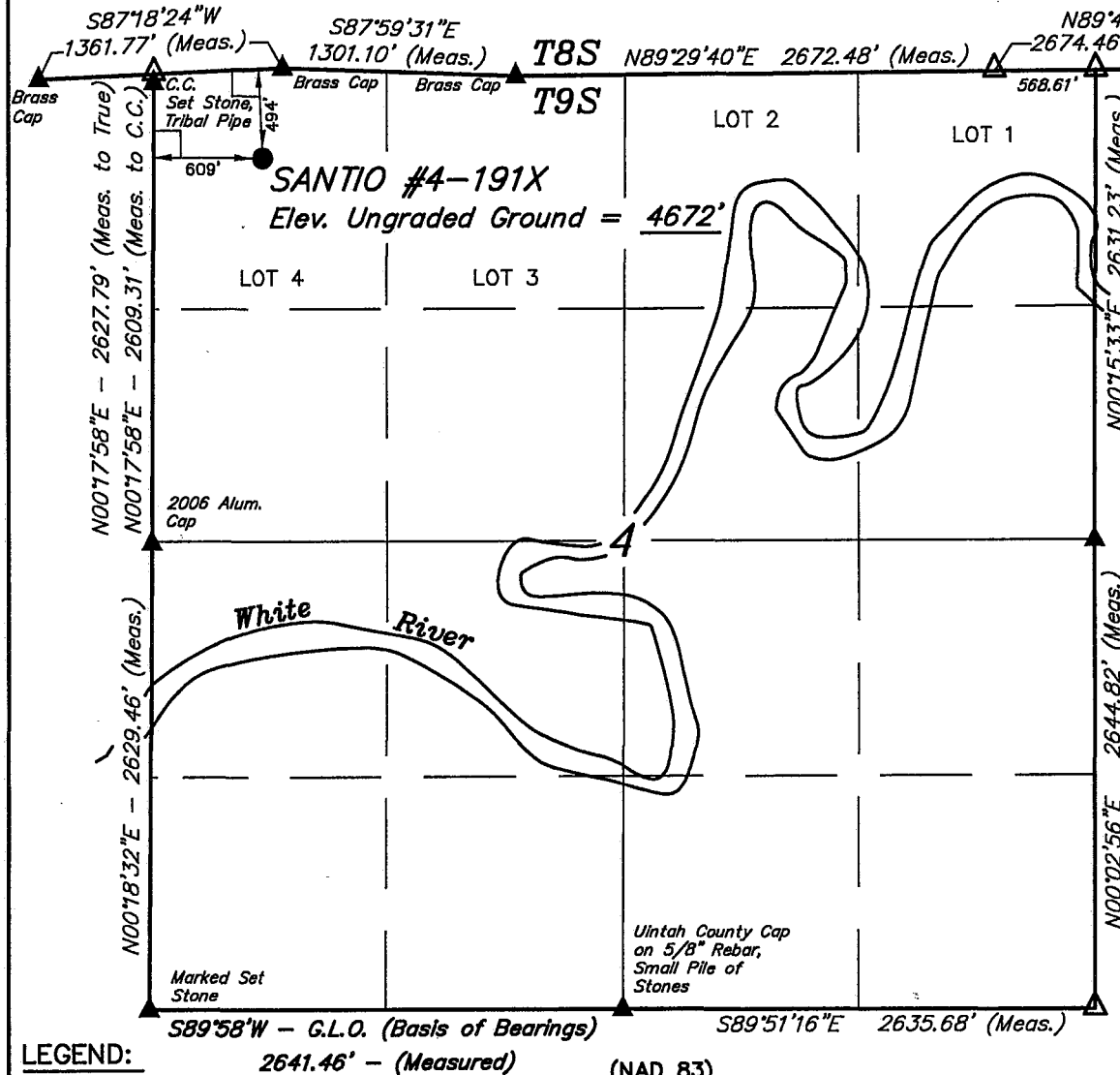
Federal Approval of this  
Action is Necessary

RECEIVED  
OCT 23 2008  
DIV. OF OIL, GAS & MINING

**T9S, R21E, S.L.B.&M.**

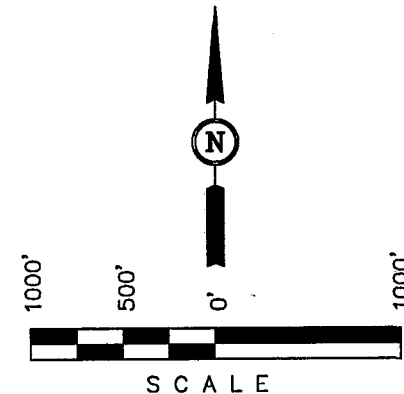
**Kerr-McGee Oil & Gas Onshore LP**

Well location, SANTIO #4-191X, located as shown in Lot 4 of Section 4, T9S, R21E, S.L.B.&M., Uintah County, Utah.



**BASIS OF ELEVATION**

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.



**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

ROBERT L. KAY  
REGISTERED LAND SURVEYOR  
REGISTRATION NO. 161319  
STATE OF UTAH

**LEGEND:**

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.
- △ = SECTION CORNERS RE-ESTABLISHED (NOT SET ON GROUND)

(NAD 83)  
LATITUDE = 40°04'15.70" (40.071028)  
LONGITUDE = 109°33'50.24" (109.563956)  
(NAD 27)  
LATITUDE = 40°04'15.83" (40.071064)  
LONGITUDE = 109°33'47.76" (109.563267)

**UINTAH ENGINEERING & LAND SURVEYING**  
85 SOUTH 200 EAST - VERNAL, UTAH 84078  
(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 10-22-08	DATE DRAWN: 10-22-08
PARTY D.K. C.K. C.H.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE Kerr-McGee Oil & Gas Onshore LP	

SANTIO 4-191X  
NWNW SEC 4-T9S-R21E  
UINTAH COUNTY, UTAH  
LEASE NUMBER: 14-20-H62-3894

ONSHORE ORDER NO. 1  
KERR MCGEE OIL & GAS ONSHORE LP

***DRILLING PROGRAM***

1. Estimated Tops of Important Geologic Markers:

<u>Formation</u>	<u>Depth</u>
Green River	2030'
Wasatch	5430'
Mesaverde	8590'
Total Depth	10550'

2. Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River	2030'
	Wasatch	5430'
Gas	Mesaverde	8590'
Gas	N/A	
Water	N/A	
Other Minerals	N/A	

3. Pressure Control Equipment:

*Please see the Natural Buttes Unit Standard Operating Procedure (SOP).*

4. Proposed Casing & Cementing Program:

*Please see the Natural Buttes Unit SOP.*

*Please refer to the attached Drilling Program.*

5. Drilling Fluids Program:

*Please see the Natural Buttes Unit SOP.*

6. Evaluation Program:

*Please see the Natural Buttes Unit SOP.*

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure at 10550' TD approximately equals 6541 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4220 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates & Notification of Operations:

*Please see the Natural Buttes Unit SOP.*

9. Variances:

*Please see the Natural Buttes Unit SOP.*

10. Other Information:

*Please see the Natural Buttes Unit SOP.*

SANTIO 4-191X  
NWNW SEC 4-T9S-R21E  
UINTAH COUNTY, UTAH  
LEASE NUMBER: 14-20-H62-3894

ONSHORE ORDER NO. 1

*MULTI-POINT SURFACE USE & OPERATIONS PLAN*

An onsite inspection was conducted for the SANTIO 4-191 on 4/4/01. In attendance at the inspection were the following individuals:

Carroll Estes	Kerr-McGee Oil & Gas Onshore LP
Greg Darlington	Bureau of Land Management
Don Allred	Uintah Engineering & Land Surveying
Jared Thompson	Uintah Engineering & Land Surveying
Jim Justice	J&L Oilfield Service
Robert Murray	Craig's Roustabout Service
Carroll Wilson	Kerr-McGee Oil & Gas Onshore LP
Alvin Ignacio	Ute Tribe
Manuel Myore	Bureau of Indian Affairs
LuAna Thompson	Bureau of Indian Affairs
Clay Einerson	Kerr-McGee Oil & Gas Onshore LP

1. Existing Roads:

Refer to Topo Map A for directions to the location.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. Planned Access Roads:

*Please see the Natural Buttes Unit Standard Operating Procedure (SOP).*

Refer to Topo Map B for the location of the proposed access road.

3. Location of Existing Wells Within a 1-Mile Radius

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities

*Please see the Natural Buttes Unit SOP.*

Refer to Topo Map D for the location of the proposed pipeline.

If Questar's pipeline is still in place, it shall be wrapped and buried, as discussed during the onsite inspection.

The trenching of the pipeline shall be monitored by a qualified Archaeologist and a Tribal Technician, as discussed during the onsite inspection.

5. Location and Type of Water Supply:

*Please see the Natural Buttes Unit SOP.*

6. Source of Construction Materials

*Please see the Natural Buttes Unit SOP.*

7. Methods of Handling Waste Materials

*Please see the Natural Buttes Unit SOP.*

*Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec 5-T9S-R22E, NBU #159, Sec 35-T9S-R21E, Ace Oilfield Sec 2-T6S-R20E, MC & MC Sec 12-T6S-R19E,. (Requests in lieu of filing Form 3160-5 after initial production).*

8. Ancillary Facilities

*Please see the Natural Buttes Unit SOP.*

9. Well Site Layout: (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Culvert(s) are to be installed as needed.

A run off diversion for drainage will be constructed as needed.

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

The reserve pit will be lined. When the reserve pit is closed, the pit liner will be buried below plow depth.

The drainage shall be diverted around the reserve pit as discussed during the onsite inspection.

10. Plans for Reclamation of the Surface:

*Please see the Natural Buttes Unit SOP.*

11. Surface Ownership:

Ute Indian Tribe  
P.O. Box 70  
Fort Duchesne, Utah 84026  
(435)-722-5141

12. Other Information:

A Class III archaeological survey has been conducted for this location and submitted to the Ute Indian Tribe prior to the on-site.

13. Lessee's or Operators's Representative & Certification:

Debra Domenici  
Administrative Assistant  
Kerr-McGee Oil & Gas Onshore LP  
P.O. Box 1148  
Vernal, UT 84078  
(435) 781-7060

Randy Bayne  
Drilling Manager  
Kerr-McGee Oil & Gas Onshore LP  
P.O. Box 1148  
Vernal, UT 84078  
(435)781-7018

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted Upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Kerr-McGee Oil & Gas Onshore LP Bond #N-2115, BLM Nationwide Bond # CO-1203, and BIA Nationwide Bond # RLB0005239.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Debra Domenici  
Debra Domenici

Ramey Hoops

2/3/06  
Date  
10-21-2008





UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East VERNAL, UT 84078 (435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

<b>Company:</b>	<b>Kerr-McGee Oil &amp; Gas Onshore, LP</b>	<b>Location:</b>	<b>NWNW, Sec. 4, T9S, R21E</b>
<b>Well No:</b>	<b>Santio 4-191</b>	<b>Lease No:</b>	<b>14-20-H62-3894</b>
<b>API No:</b>	<b>43-047-37733</b>	<b>Agreement:</b>	<b>UTU-080491-84C725</b>

Petroleum Engineer:	Matt Baker	Office: 435-781-4490	Cell: 435-828-4470
Petroleum Engineer:	Michael Lee	Office: 435-781-4432	Cell: 435-828-7875
Supervisory Petroleum Technician:	Jamie Sparger	Office: 435-781-4502	Cell: 435-828-3913
Environmental Scientist:	Paul Buhler	Office: 435-781-4475	Cell: 435-828-4029
Environmental Scientist:	Karl Wright	Office: 435-781-4484	
Natural Resource Specialist:	Holly Villa	Office: 435-781-4404	
Natural Resource Specialist:	Melissa Hawk	Office: 435-781-4476	
Natural Resource Specialist:	Charles Sharp	Office: 435-781-4486	
Natural Resource Specialist:	Scott Ackerman	Office: 435-781-4437	
<b>After Hours Contact Number: 435-781-4513</b>		<b>Fax: 435-781-4410</b>	

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a one-year period. An additional year extension may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

- |   |  |
|---|--|
| Location Construction<br>(Notify Scott Ackerman)            | - Forty-Eight (48) hours prior to construction of location and access roads.   |
| Location Completion<br>(Notify Scott Ackerman)              | - Prior to moving on the drilling rig.   |
| Spud Notice<br>(Notify Petroleum Engineer)                  | - Twenty-Four (24) hours prior to spudding the well.   |
| Casing String & Cementing<br>(Notify Jamie Sparger SPT)     | - Twenty-Four (24) hours prior to running casing and cementing all casing strings.   |
| BOP & Related Equipment Tests<br>(Notify Jamie Sparger SPT) | - Twenty-Four (24) hours prior to initiating pressure tests.   |
| First Production Notice<br>(Notify Petroleum Engineer)      | - Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days. |

**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**General Conditions of Approval**

- A 0' foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipeline.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROWs.
- **The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.**
- **You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.**
- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations shall be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All personnel shall refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the Ute Tribe Energy & Minerals Department shall be notified shall cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.

- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

### **DOWNHOLE CONDITIONS OF APPROVAL**

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

#### **SITE SPECIFIC DOWNHOLE CONDITIONS OF APPROVAL**

- Surface casing cement shall be brought up to the surface. To reach the surface, operator is required to pump additional cement beyond the stated amounts of sacks in application.

#### **DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well. Any changes in operation must have prior approval from the BLM, Vernal Field Office Petroleum Engineers.
- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- **Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.**
- Blowout prevention equipment (BOPE) will remain in use until the well is completed or abandoned. Closing unit controls must remain unobstructed and readily accessible at all times. Choke manifolds must be located outside of the rig substructure.
- All BOPE components will be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests must be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test must be reported in the driller's log.
- BOP drills must be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- The lessee/operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled and analyzed (a copy of the analyses to be submitted to the BLM Field Office in Vernal, Utah).

- All oil and gas shows shall be adequately tested for commercial possibilities, reported, and protected.
- The lessee/operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, etc.) to Peter Sokolosky or another geologist of the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- All shows of fresh water and minerals will be reported and protected. A sample will be taken of any water flows and a water analysis furnished the BLM, Vernal Field Office. All oil and gas shows will be adequately tested for commercial possibilities, reported, and protected.
- No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the BLM, Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM, Vernal Field Office must be obtained and notification given before resumption of operations.
- Chronologic drilling progress reports must be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- Any change in the program must be approved by the BLM, Vernal Field Office. "Sundry Notices and Reports on Wells" (Form BLM 3160-5) must be filed for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.
- Emergency approval may be obtained orally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, will require the filing of a suitable plan pursuant to Onshore Oil & Gas Order No. 1 of 43 CFR 3164.1 and prior approval by the BLM, Vernal Field Office.
- In accordance with 43 CFR 3162.4-3, this well must be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a

summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) will be submitted only when requested by the BLM, Vernal Field Office.

- **Please submit an electronic copy of all logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM. The cement bond log must be submitted in raster format (TIF, PDF other).**
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the BLM, Vernal Field Office.
- All measurement points shall be identified as point of sales or allocation for royalty determination prior to the installation of facilities.
- Oil and gas meters will be calibrated in place prior to any deliveries. The Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the BLM, Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM, Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- This APD is approved subject to the requirement that, shall the well be successfully completed for production, the BLM, Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and / or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas will be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from Field Office Petroleum Engineers.

summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) will be submitted only when requested by the BLM, Vernal Field Office.

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- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the BLM, Vernal Field Office.
- All measurement points shall be identified as point of sales or allocation for royalty determination prior to the installation of facilities.
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- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM, Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
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  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and / or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas will be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from Field Office Petroleum Engineers.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events as defined in NTL3A, will be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.



Kerr McGee Oil and Gas Onshore LP

DRILLING PROGRAM

COMPANY NAME	Kerr McGee Oil and Gas Onshore LP		DATE	Ocotber 22, 2008	
WELL NAME	SANTIO 4-191X		TD	10,900'	MD/TVD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
				ELEVATION	4,672' GL KB 4,687'
SURFACE LOCATION	NWNW SECTION 4-T9S-R21E			BHL	Straight Hole
	Latitude: 40.071028 Longitude: 109.563956				
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: TRIBAL SURFACE/MINERALS, BLM, UTDOGM, Tri-County Health Dept.				

GEOLOGICAL FORMATION			MECHANICAL		
LOGS	TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			12-1/4"	9-5/8", 32.3#, H-40, STC	Air mist
Catch water sample, if possible, from 0 to 5,430'					
	Green River @	2,030'			
	Preset f/ GL @				
	2800 MD				
Mud logging program TBD					
Open hole logging program f/ TD - surf csg					
	Wasatch @	5,430'			
	Mverde @	8,590'			
			7-7/8"	4-1/2", 11.6#, P110 or equivalent LTC casing	Water/Fresh Water Mud 8.3-12.0 ppg
					Max anticipated Mud required 12.0 ppg
		TD @ 10,900'			

Kerr McGee Oil and Gas Onshore LP  
DRILLING PROGRAM

CASING PROGRAM

						DESIGN FACTORS		
	SIZE	INTERVAL	WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				2270	1370	254000
SURFACE	9-5/8"	0 to 2800	32.30	H-40	STC	0.52*****	1.05	3.21
PRODUCTION	4-1/2"	0 to 10900	11.60	P110	LTC	10690	7560	279000
						2.43	1.11	2.53

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)  
2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)  
(Burst Assumptions: TD = 12.0 ppg) .22 psi/ft = gradient for partially evac wellbore  
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoyn.Fact. of water)  
MASP 4404 psi

\*\*\*\*\* Burst SF is low but csg is much stronger than formation at 2000'. EMW @ 2000' for 2270# is 21.8 ppg or 1.13 psi/ft

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE Option 2	LEAD	1500	Prem cmt + 16% Gel + 10 pps gilsonite + .25 pps Flocele + 3% salt BWOC	170	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,930'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	540	60%	11.00	3.38
	TAIL	5,970'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1670	60%	14.30	1.31

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained  
\*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

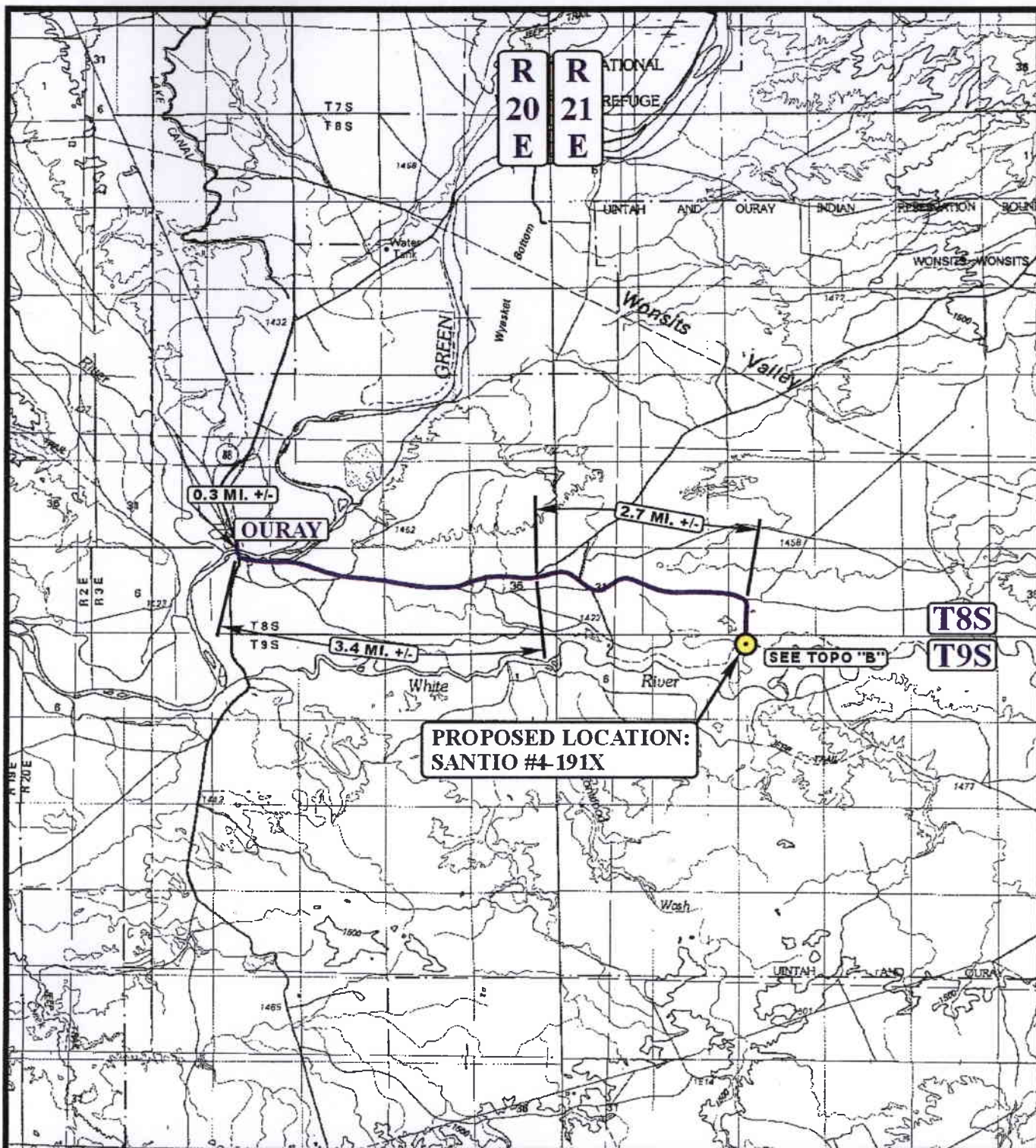
FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	
	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.  
BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.  
Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.  
Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: \_\_\_\_\_ DATE: \_\_\_\_\_  
Brad Laney  
DRILLING SUPERINTENDENT: \_\_\_\_\_ DATE: \_\_\_\_\_  
Randy Bayne



# **LEGEND:**

● PROPOSED LOCATION



**Kerr-McGee Oil & Gas Onshore LP**

**SANTIO #4-191X**  
**SECTION 4, T9S, R21E, S.L.B.&M.**  
**494' FNL 609' FWL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

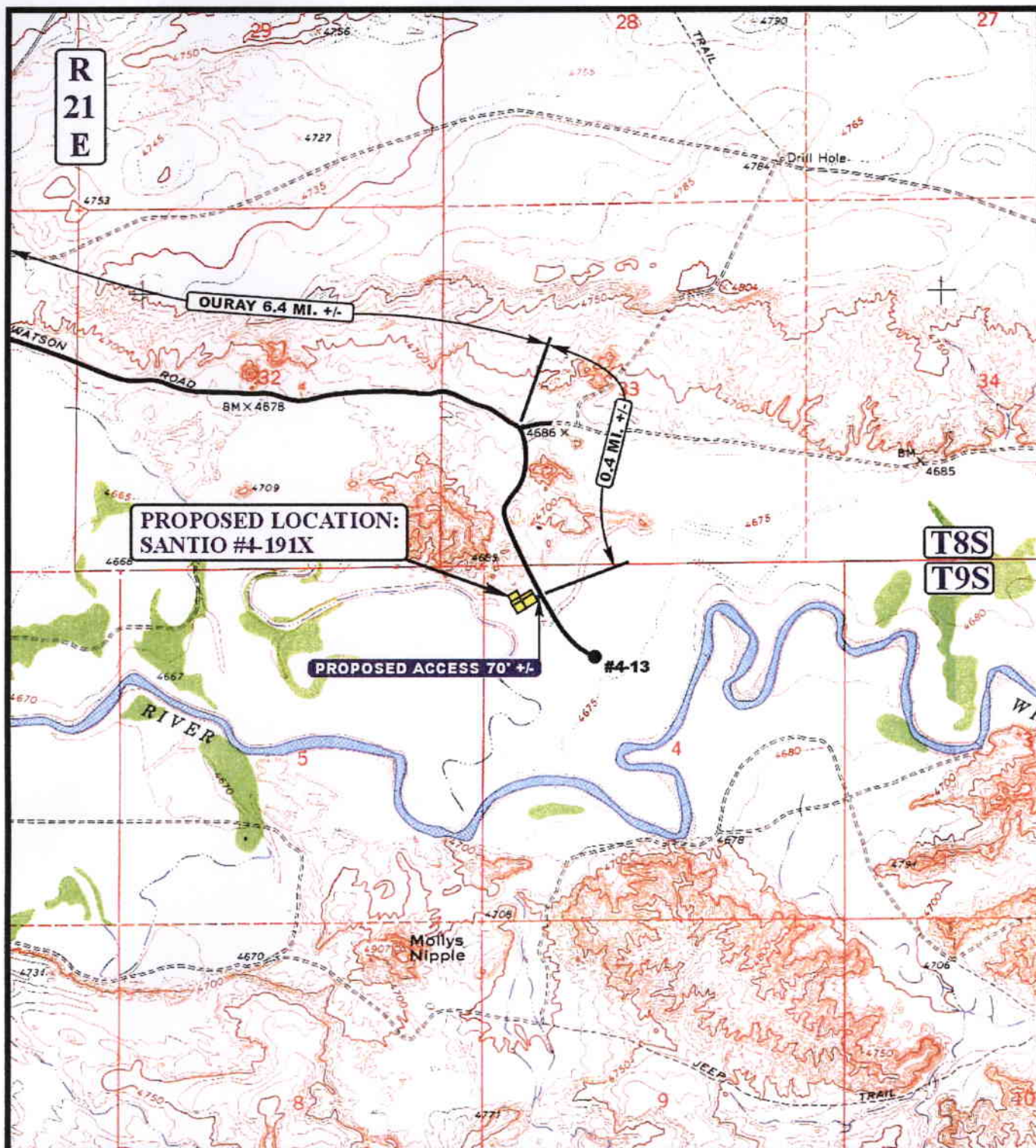
**TOPOGRAPHIC**  
**MAP**

**01 17 06**  
 MONTH DAY YEAR

SCALE: 1:100,000 DRAWN BY: C.P. REV: 10-22-08 C.H.







# LEGEND:

EXISTING ROAD  
 PROPOSED ACCESS ROAD



Kerr-McGee Oil & Gas Onshore LP

SANTIO #4-191X  
 SECTION 4, T9S, R21E, S.L.B.&M.  
 494' FNL 609' FWL



Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC  
 MAP

01 17 06  
 MONTH DAY YEAR

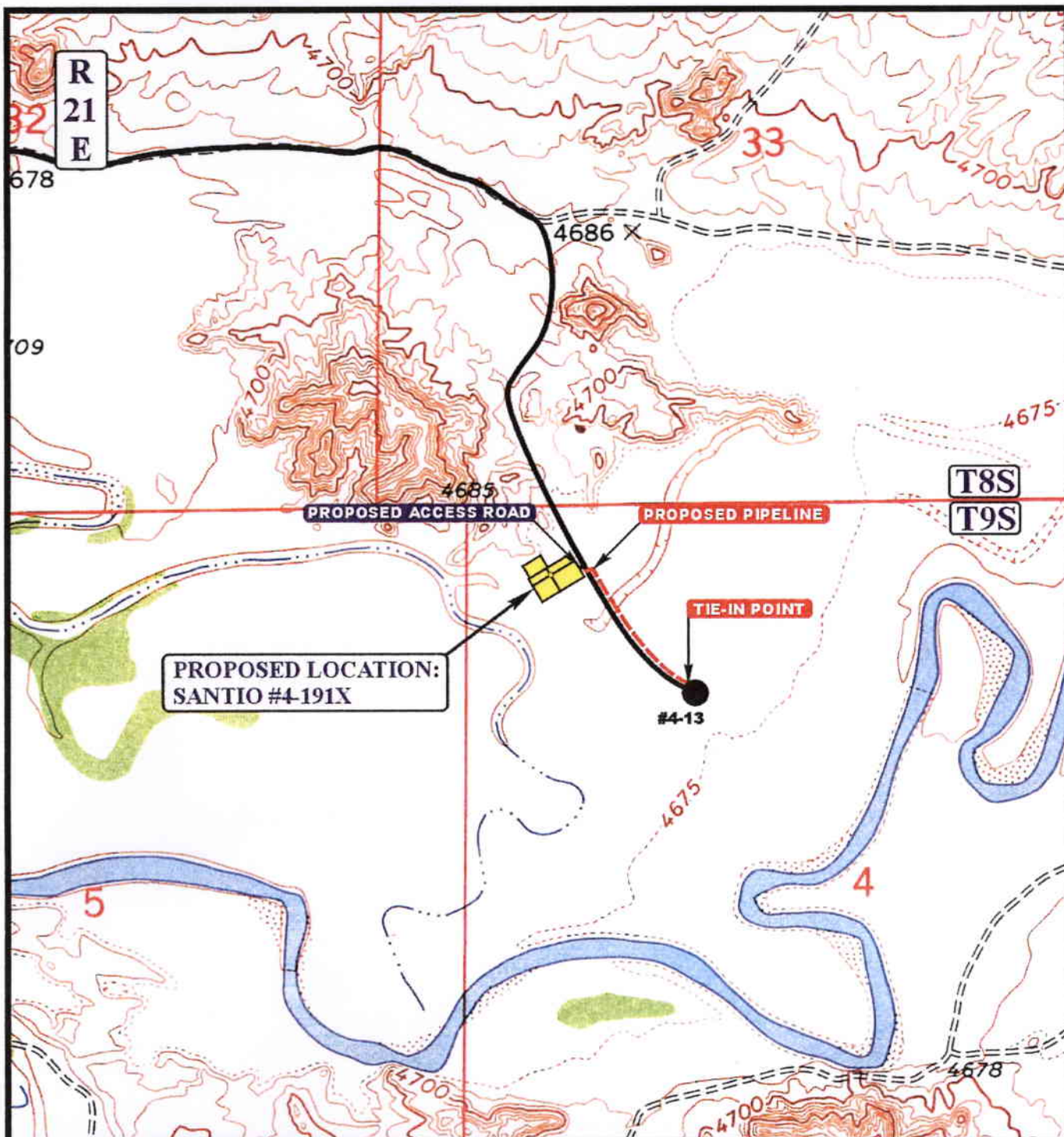
SCALE: 1" = 2000' DRAWN BY: C.P. REV: 10-22-08 C.H.

B  
 TOPO









APPROXIMATE TOTAL PIPELINE DISTANCE = 1,160' +/-

**LEGEND:**

— PROPOSED ACCESS ROAD  
 - - - PROPOSED PIPELINE



Kerr-McGee Oil & Gas Onshore LP  
 SANTIO #4-191X  
 SECTION 4, T9S, R21E, S.L.B.&M.  
 494' FNL 609' FWL



Uintah Engineering & Land Surveying  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC  
 MAP

01 17 06  
 MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: C.P. REV: 10-22-08 C.H.



# Kerr-McGee Oil & Gas Onshore LP

FIGURE #1

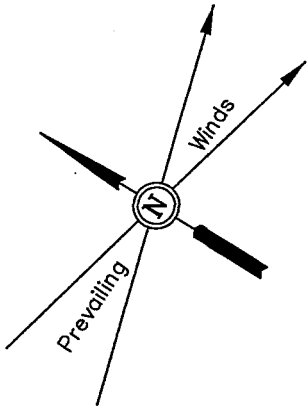
## LOCATION LAYOUT FOR

SANTIO #4-191X  
SECTION 4, T9S, R21E, S.L.B.&M.

C-0.3' 494' FNL 609' FWL  
El. 73.1'

Proposed Access Road

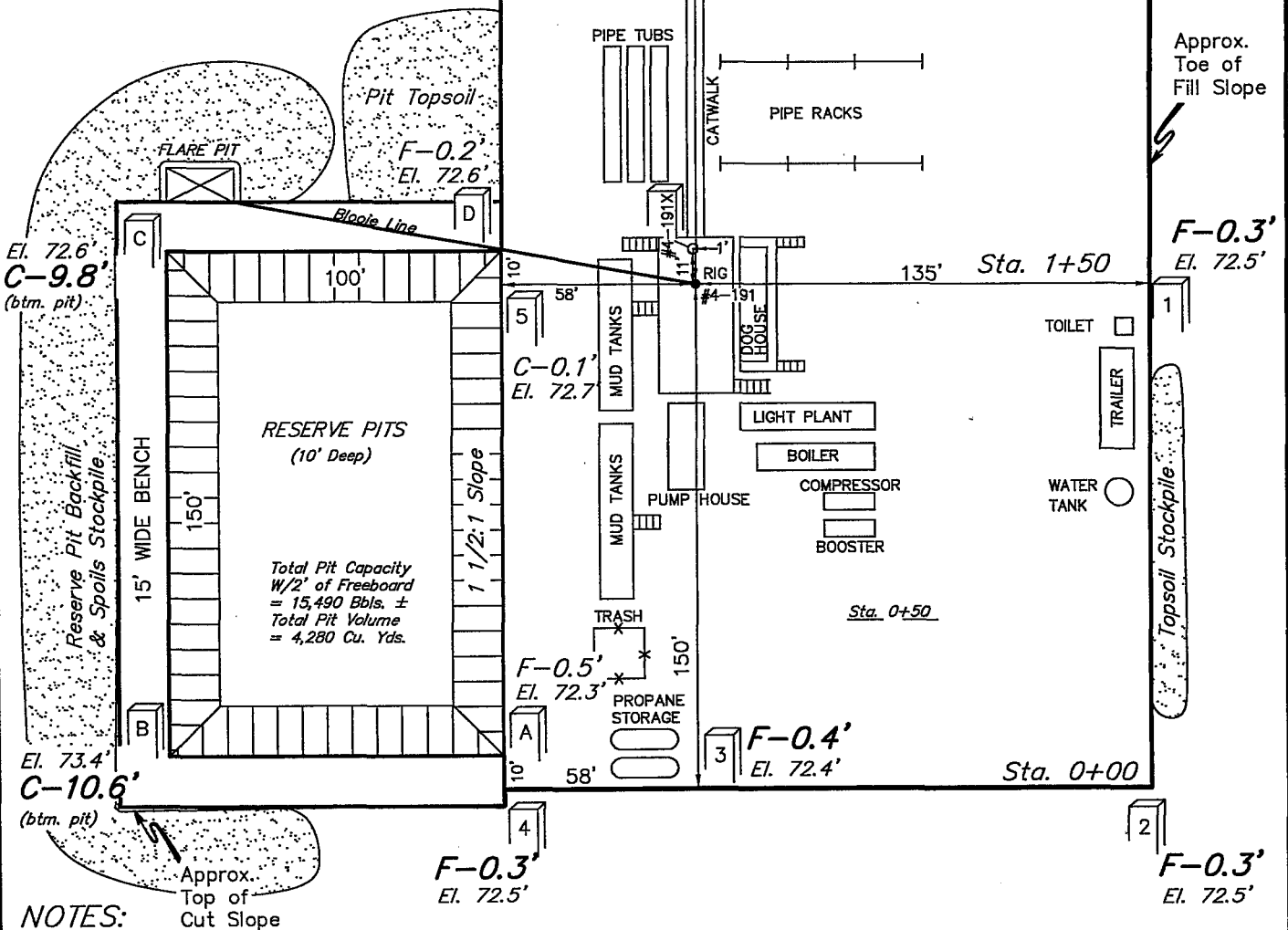
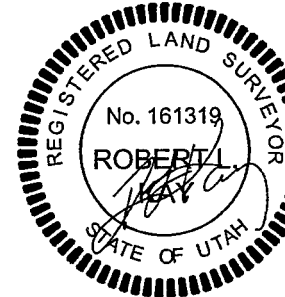
F-0.6' El. 72.2'



SCALE: 1" = 50'  
DATE: 12-13-06  
Drawn By: C.H.  
REV: 10-22-08

### NOTE:

Flare Pit is to be located a min. of 100' from the Well Head.



### NOTES:

Elev. Ungraded Ground At Loc. Stake = 4673.0'  
FINISHED GRADE ELEV. AT LOC. STAKE = 4672.8'

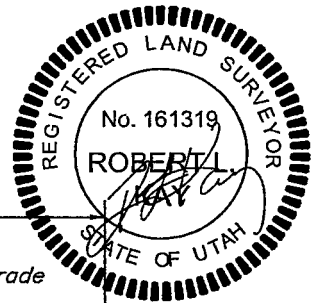
UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017

# Kerr-McGee Oil & Gas Onshore LP

FIGURE #2

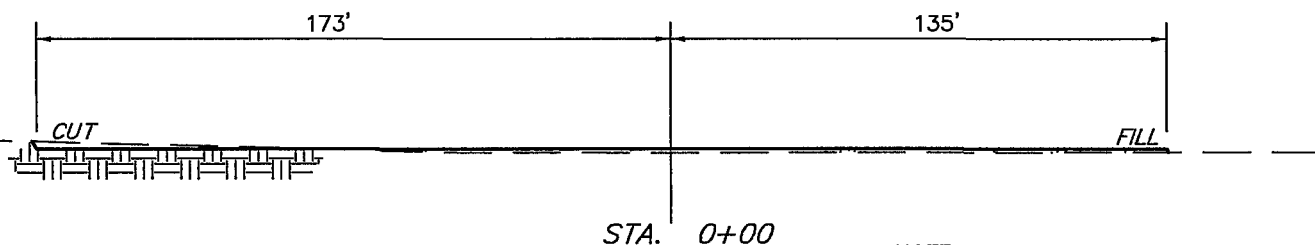
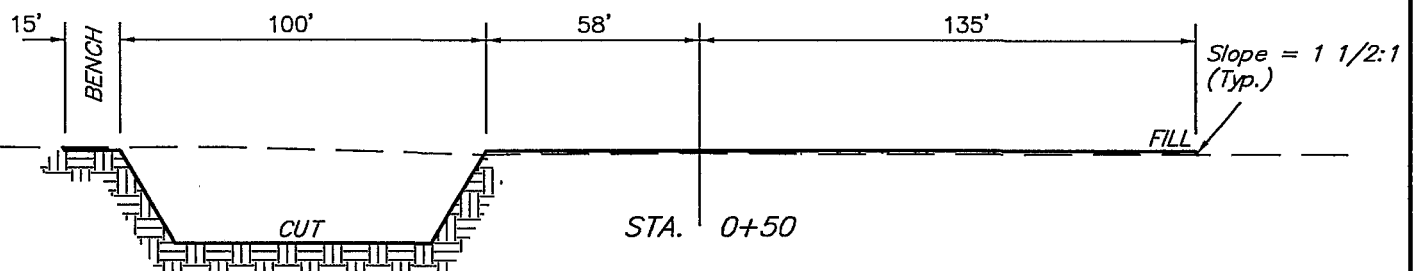
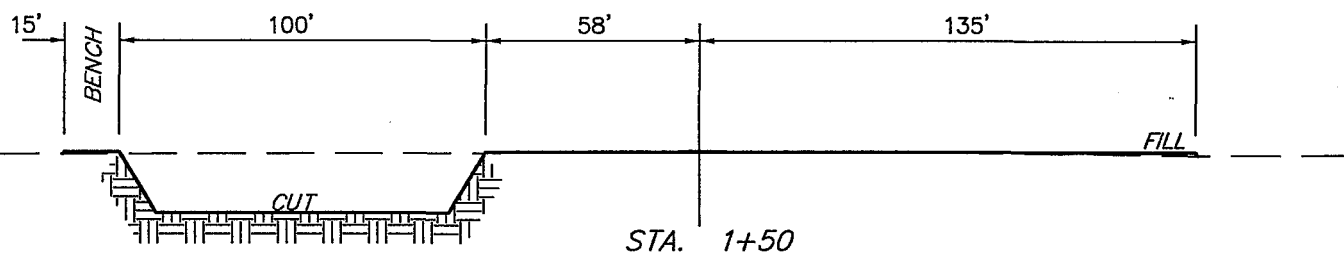
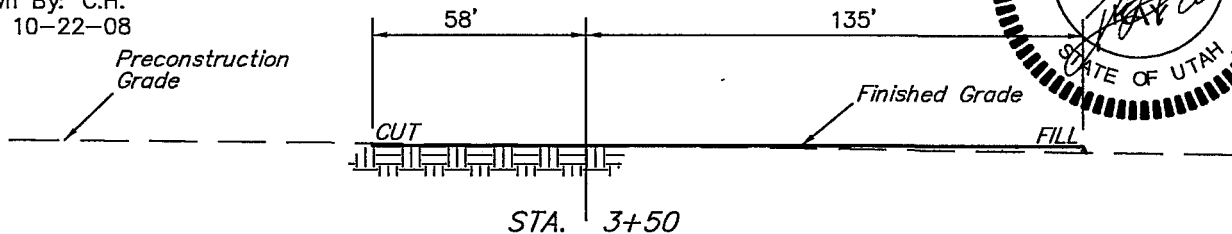
## TYPICAL CROSS SECTIONS FOR

SANTIO #4-191X  
SECTION 4, T9S, R21E, S.L.B.&M.  
494' FNL 609' FWL



1" = 20'  
X-Section  
Scale  
1" = 50'

DATE: 12-13-06  
Drawn By: C.H.  
REV: 10-22-08



\* NOTE:  
FILL QUANTITY INCLUDES  
5% FOR COMPACTION

### APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,690 Cu. Yds.
Remaining Location	= 4,010 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 5,700 CU.YDS.</b>
<b>FILL</b>	<b>= 1,870 CU.YDS.</b>

### NOTE:

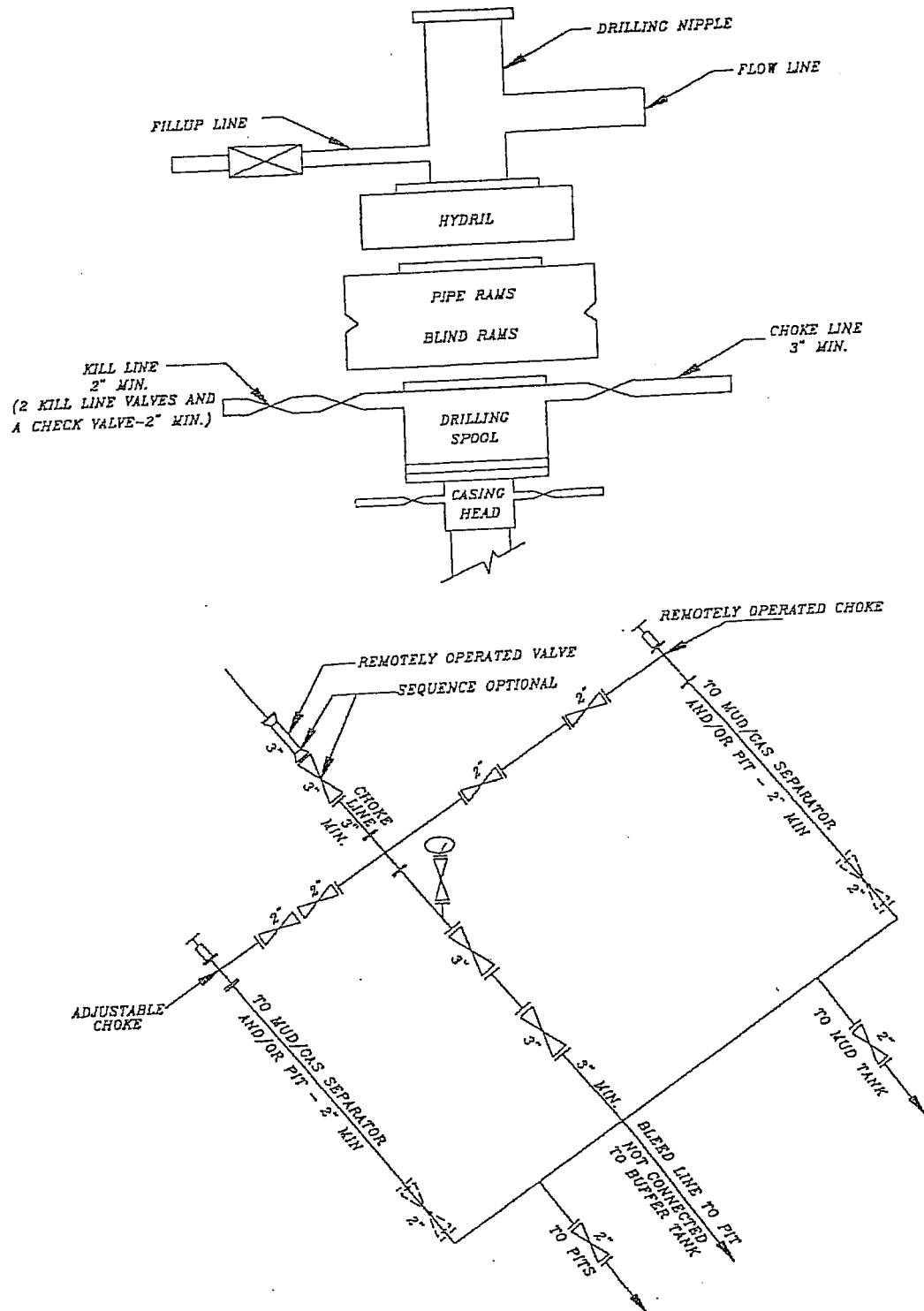
Topsoil should not be  
Stripped Below Finished  
Grade on Substructure Area.

EXCESS MATERIAL	= 3,830 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,830 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING  
85 So. 200 East \* Vernal, Utah 84078 \* (435) 789-1017



# 5M BOP STACK and CHOKE MANIFOLD SYSTEM



**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 10/23/2008

API NO. ASSIGNED: 43-047-40406

WELL NAME: SANTIO 4-191X(RIGSKID)

OPERATOR: KERR-MCGEE OIL & GAS ( N2995 )

PHONE NUMBER: 435-781-7003

CONTACT: RAMEY HOOPES

PROPOSED LOCATION:

NWNW 04 090S 210E

SURFACE: 0494 FNL 0609 FWL

BOTTOM: 0494 FNL 0609 FWL

COUNTY: Uintah

LATITUDE: 40.07088 LONGITUDE: -109.5633

UTM SURF EASTINGS: 622512 NORTHINGS: 4436403

FIELD NAME: NATURAL BUTTES ( 630 )

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
-------------	----------	------

Engineering		
-------------	--	--

Geology		
---------	--	--

Surface		
---------	--	--

LEASE TYPE: 2 - Indian

LEASE NUMBER: 14-20-H62-3894

PROPOSED FORMATION: WSMVD

SURFACE OWNER: 2 - Indian

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat

☒ Bond: Fed[] Ind[2] Sta[] Fee[]  
(No. RLB0005239 )

☒ Potash (Y/N)

☒ Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit  
(No. 43-8496 )

☒ RDCC Review (Y/N)  
(Date: )

☒ Fee Surf Agreement (Y/N)

☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

\_\_\_ R649-2-3.

Unit: \_\_\_\_\_

\_\_\_ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

\_\_\_ R649-3-3. Exception

☒ Drilling Unit

Board Cause No: 173-20

Eff Date: 9-12-2003

Siting: 460' fr ext. dir. ul. dry 920' fr other wells

\_\_\_ R649-3-11. Directional Drill

COMMENTS:

*Sep, Sep, 11, 12*

STIPULATIONS:

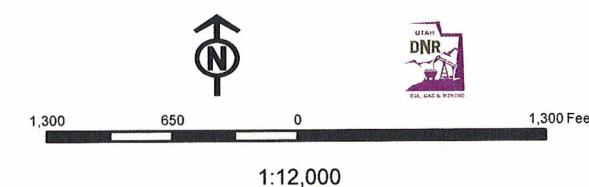
*1- Lead Approval  
2- Oil Shale*



**API Number: 4304740406**  
**Well Name: SANTIO 4-191X(RIGSKID)**  
**Township 09.0 S Range 21.0 E Section 04**  
**Meridian: SLBM**  
Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:  
Map Produced by Diana Mason

Units	Wells Query Events
<b>STATUS</b>	<all other values>
ACTIVE	<b>GIS_STAT_TYPE</b>
EXPLORATORY	<Null>
GAS STORAGE	APD
NF PP OIL	DRL
NF SECONDARY	GI
PI OIL	GS
PP GAS	LA
PP GEOTHERML	NEW
PP OIL	OPS
SECONDARY	PA
TERMINATED	PGW
<b>Fields</b>	POW
<b>STATUS</b>	RET
ACTIVE	SGW
COMBINED	SOW
Sections	TA
Township	TW
	WD
	WI
	WS





CONFIDENTIAL

## DIVISION OF OIL, GAS AND MINING

### SPUDDING INFORMATION

Name of Company: KERR-McGEE OIL & GAS ONSHORE, L.P.

Well Name: SANTIO 4-191X (RIG SKID)

Api No: 43-047-40406 Lease Type: INDIAN

Section 04 Township 09S Range 21E County UINTAH

Drilling Contractor PETE MARTIN DRLG RIG # BUCKET

### SPUDDED:

Date 10/21/2008

Time 8:00 AM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by LEW WELDON

Telephone # (435) 828-7035

Date 10/20/08 Signed CHD

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
SUNDRY NOTICES AND REPORTS ON WELLS  
*Do not use this form for proposals to drill or reenter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.*

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

5. Lease Serial No.  
14-20-h62-3894  
6. If Indian, Allottee or Tribe Name  
UINTAH & OURAY  
7. If Unit or CA/Agreement, Name and/or No.  
UTU-080491-84C725

**SUBMIT IN TRIPLICATE – Other instructions on reverse side**

1. Type of Well  
☐ Oil Well ☒ Gas Well ☐ Other

CONFIDENTIAL

2. Name of Operator  
KERR-McGEE OIL & GAS ONSHORE LP

3a. Address  
1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code)  
(435) 781-7024

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
500' FNL, 600' FWL 494 FNL 609 FWL  
NWNW, SEC. 4, T9S-R21E

8. Well Name and No.  
SANTIO 4-191X (Rig Skid)

9. API Well No.  
43-047-40406

10. Field and Pool, or Exploratory Area

11. County or Parish, State  
UINTAH COUNTY, UTAH

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other WELL SPUD
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7#  
SCHEDULE 10 PIPE. CMT W/28 SX READY MIX.

SPUD WELL LOCATION ON 10/21/2008 AT 0800 HRS.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

SHEILA UPCHEGO

Title

REGULATORY ANALYST

Signature

Date

October 21, 2008

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

RECEIVED

OCT 27 2008

DIV. OF OIL, GAS & MINING



## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	

## 29. Disposition of Gas (Sold, used for fuel, vented, etc.)

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth

## 32. Additional remarks (include plugging procedure):

On 10/20/2008, a 26" hole was drilled to 100'. While running the 14" conductor, a 3" by 6' long running pipe broke and allowed the conductor to fall approximately 10' into the hole. The 14" conductor was retrieved but a 3' piece of the 3" running pipe could not be recovered even after several fishing attempts. The hole was then filled with cement and the rig was moved 10' to start another location which will be called the Santio 4-191X.

## 33. Circle enclosed attachments:

- |   |                    |               |                       |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.)     | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 5. Core Analysis   | 7. Other:     |                       |

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Shuila Upchego Title Regulatory Analyst  
 Signature Shuila Upchego me Date 11/4/2008

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



JON M. HUNTSMAN, JR.  
Governor

GARY R. HERBERT  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

November 5, 2008

Kerr McGee Oil & Gas Onshore LP  
1368 South 1200 East  
Vernal, UT 84078

Re: Santio 4-191X Well, 494' FNL, 609' FWL, NW NW, Sec. 4, T. 9 South, R. 21 East,  
Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-40406.

Sincerely,

Gil Hunt  
Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
Bureau of Land Management, Vernal Office





Operator: Kerr McGee Oil & Gas Onshore LP  
Well Name & Number Santio 4-191X  
API Number: 43-047-40406  
Lease: 14-20-H62-3894

Location: NW NW Sec. 4 T. 9 South R. 21 East

### Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

6. All conditions of approval for the Indian Santio 4-191 apply to the Indian Santio 4-191X.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

KERR-McGEE OIL & GAS ONSHORE LP

3a. Address

1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code)

(435) 781-7024

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

494' FNL' 609' FWL

NWNW, SEC.4, T9S-R21E

5. Lease Serial No.

14-20-H62-3894

6. If Indian, Allottee or Tribe Name

UINTAH & OURAY

7. If Unit or CA/Agreement, Name and/or No.

UTU-08049-84C725

8. Well Name and No.

SANTIO 4-191X

9. API Well No.

43-047-40406

10. Field and Pool, or Exploratory Area

11. County or Parish, State

UINTAH COUNTY, UTAH

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other SET SURFACE
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	CSG
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

MIRU PROPETRO AIR RIG ON 11/18/2008. DRILLED 12 1/4" SURFACE HOLE TO 2870'. RAN 9 5/8" 36# J-55 SURFACE CSG. CMT W/270 SX PREM CLASS G @15.8 PPG 1.15 YIELD. NO RETURNS TO PIT +/- 220 PSI LIFT TOP OUT W/ 125 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE. 2ND TOP OUT W/100 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE GOOD CMT TO SURFACE HOLE STAYED FULL.

WORT.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

SHEILAUPCHEGO

Title

REGULATORY ANALYST

Signature

Date

November 20, 2008

**THIS SPACE FOR FEDERAL OR STATE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

RECEIVED

NOV 24 2008

DIV. OF OIL, GAS & MINING

RECEIVED  
VERNAL FIELD OFFICE

FORM APPROVED  
OMB No. 1004-0136  
Expires November 30, 2000

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

2000 OCT 22 PM 3:18

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. <b>14-20-H62-3894</b>
b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name <b>UINTAH &amp; OURAY</b>
2. Name of Operator <b>KERR MCGEE OIL &amp; GAS ONSHORE LP</b>		7. If Unit or CA Agreement, Name and No. <b>UTU-080491-84C725</b>
3A. Address <b>1368 SOUTH 1200 EAST VERNAL, UT 84078</b>	3b. Phone No. (include area code) <b>(435) 781-7003</b>	8. Lease Name and Well No. <b>SANTIO 4-191X Rlg Skid</b>
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface <b>NWNW, 494' FNL 609' FWL Lot 4</b> At proposed prod. Zone		9. API Well No. <b>43-047-40406</b>
14. Distance in miles and direction from nearest town or post office* <b>6.8 MILES SOUTHEAST OF OURAY, UTAH</b>		10. Field and Pool, or Exploratory <b>NATURAL BUTTES</b>
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) <b>494'</b>	16. No. of Acres in lease <b>79.6</b>	11. Sec., T., R., M., or Blk. and Survey or Area <b>SEC 4-T9S-R21E</b>
18. Distance from proposed* location to nearest well, drilling, completed, applied for, on this lease, ft. <b>REFER TO TOPO C</b>	19. Proposed Depth <b>10,900</b>	12. County or Parish <b>UINTAH</b>
21. Elevations (Show whether DF, KDB, RT, GL, etc.) <b>4672' UNGRADED GL</b>		13. State <b>UTAH</b>
22. Approximate date work will start* <b>ASAP</b>		17. Spacing Unit dedicated to this well <b>79.6</b>
23. Estimated duration <b>TO BE DETERMINED</b>		20. BLM/BIA Bond No. on file <b>BIA #RLB0005239</b>

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- |   |   |
|---|---|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).   |
| 2. A Drilling Plan.   | 5. Operator certification.  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized office. |

25. Signature <i>Ramey Hoopes</i>	Name (Printed/Typed) <b>RAMEY HOOPES</b>	Date <b>10/22/2008</b>
Title <b>REGULATORY ANALYST</b>		
Approved by (Signature) <i>Jeff Kenczka</i>	Name (Printed/Typed) <b>JEFF KENCZKA</b>	Date <b>OCT 23 2008</b>
Title <b>Assistant Field Manager</b>	Office <b>VERNAL FIELD OFFICE</b>	
<b>Lands &amp; Mineral Resources</b>		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

**CONDITIONS OF APPROVAL ATTACHED**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

RECEIVED

NOTICE OF APPROVAL

DEC 15 2008

09CS0013A

DIV. OF OIL, GAS & MINING

UDOGM



UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



**CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL**

Company: Kerr-McGee Oil & Gas Onshore, LP      Location: Lot 4, Sec. 4, T9S, R21E  
Well No: Santio 4-191X Rig Skid      Lease No: 14-20-H62-3894  
API No: 43-047- 40406      Agreement: CA UT080491-84C725

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	(435) 828-3546
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	(435) 828-4029
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	(435) 828-7381
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verilyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

Fax: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR  
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

**NOTIFICATION REQUIREMENTS**

Construction Activity	- The Ute Tribe Energy & Minerals Dept. shall be notified in writing 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion	- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**General Conditions of Approval**

- A 0' foot corridor right-of-way shall be approved. Upon completion of each pipeline in corridor, they shall be identified and filed with the Ute Tribe.
- A qualified Archaeologist accompanied by a Tribal Technician will monitor trenching construction of pipeline.
- The Ute Tribe Energy & Minerals Department is to be notified, in writing 48 hours prior to construction of pipeline.
- Construction Notice shall be given to the department on the Ute Tribe workdays, which are Monday through Thursday. The Company understands that they may be responsible for costs incurred by the Ute Tribe after hours.
- The Company shall inform contractors to maintain construction of pipelines within the approved ROWs.
- **The Company shall assure the Ute Tribe that "ALL CONTRACTORS, INCLUDING SUB-CONTRACTORS, LEASING CONTRACTORS, AND ETC." have acquired a current and valid Ute Tribal Business License and have "Access Permits" prior to construction, and will have these permits in all vehicles at all times.**
- **You are hereby notified that working under the "umbrella" of a company does not allow you to be in the field, and can be subject to those fines of the Ute Tribe Severance Tax Ordinance.**
- Any deviation of submitted APD's and ROW applications the Companies will notify the Ute Tribe and BIA in writing and will receive written authorization of any such change with appropriate authorization.
- The Company will implement "Safety and Emergency Plan." The Company's safety director will ensure its compliance.
- All Company employees and/or authorized personnel (sub-contractors) in the field will have approved applicable APD's and/or ROW permits/authorizations on their person(s) during all phases of construction.
- All vehicular traffic, personnel movement, construction/restoration operations shall be confined to the area examined and approved, and to the existing roadways and/or evaluated access routes.
- All personnel shall refrain from collecting artifacts, any paleontological fossils, and from disturbing any significant cultural resources in the area.
- The personnel from the Ute Tribe Energy & Minerals Department shall be notified should cultural remains from subsurface deposits be exposed or identified during construction. All construction will cease.

- All mitigative stipulations contained in the Bureau of Indian Affairs Site Specific Environmental Assessment (EA) will be strictly adhered.
- Upon completion of Application for Corridor Right-Way, the company will notify the Ute Tribe Energy & Minerals Department, so that a Tribal Technician can verify Affidavit of Completion.

**DOWNHOLE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

**SITE SPECIFIC DOWNHOLE COAs:**

- Surface casing cement shall be brought up to the surface. To reach the surface, operator is required to pump additional cement beyond the stated amounts of sacks in application.

**All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to.** The following items are emphasized:

**DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS**

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person

making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.



## OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
  - Operator name, address, and telephone number.
  - Well name and number.
  - Well location (¼¼, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - Unit agreement and/or participating area name and number, if applicable.
  - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or

data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUNDRY NOTICES AND REPORTS ON WELLS**  
***Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.***

5. Lease Serial No.  
1420H623894

6. If Indian, Allottee or Tribe Name  
UINTAH AND OURAY  
ALLOTTED

**SUBMIT IN TRIPLICATE** – Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator  
KERR MCGEE OIL & GAS ONSHORE LP

3a. Address  
1368 SOUTH 1200 EAST VERNAL, UTAH 84078

3b. Phone No. (include area code)  
435.781.7024

7. If Unit of CA/Agreement, Name and/or No.  
CA: UTU-080491-84C725

8. Well Name and No.  
SANTIO 4-191X

9. API Well No.  
4304740406

10. Field and Pool or Exploratory Area  
NATURAL BUTTES

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

NW/NW SEC. 4, T9S, R21E 494/FNL, 609/FWL

11. Country or Parish, State  
UINTAH COUNTY, UTAH

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>FINAL DRILLING</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<u>OPERATIONS</u>
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13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

FINISHED DRILLING FROM 2870' TO 10,925' ON 12/06/2008. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W700 SX PREM LITE II @12.0 PPG 2.35 YIELD. TAILED CMT W/1400 SX 50/50 POZ @14.3 PPG 1.31 YIELD. DISPLACE W/168 BBL WATER BUMP PLUG TO 3350# FLOATS HELD CMT RETURNS TO PIT 112 BBLs INSTALL HANGER SEAL & TEST SEAL OK. CLEAN PITS NIPPLE DOWN BOPS.

RELEASED PIONEER RIG 41 ON 12/08/2008 AT 2000 HRS.

**RECEIVED**

**DEC 10 2008**

**DIV. OF OIL, GAS & MINING**

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)  
SHEILA UPCHEGO

Title REGULATORY ANALYST

Signature

Date 12/09/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**CONFIDENTIAL**

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

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UINTAH AND OURAY  
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10. Field and Pool or Exploratory Area  
NATURAL BUTTES

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
NW/NW SEC. 4, T9S, R21E 49A FNL, 609 FWL

11. Country or Parish, State  
UINTAH COUNTY, UTAH

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION				
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off	
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity	
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <b>PRODUCTION</b>	
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	<b>START-UP</b>	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal		

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

THE SUBJECT WELL LOCATION WAS PLACED ON PRODUCTION 12/28/2008 AT 0230 HRS.  
THE SUBJECT WELL LOCATION FLOWS FROM THE WELL HEAD TO METER ON LOCATION,  
THEN TO THE OURAY COMPRESSOR AND TO THE CTB W33S (CA-2) IN SEC. 33, T9S, R22E.

PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)  
SHEILA UPCHEGO

Title REGULATORY ANALYST

Signature

Date 12/31/2008

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

**RECEIVED**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**JAN 03 2009**  
**DIV. OF OIL, GAS & MINING**

Wins No.: C0891

## SANTIO 4-191X

## Well Operations Summary Long

Operator KERR-MCGEE OIL & GAS ONSHORE LP		FIELD NAME NATURAL BUTTES	SPUD DATE 11/16/2008	GL 4,672	KB 4690	ROUTE V52
API 4304740406	STATE UTAH		COUNTY UINTAH		DIVISION ROCKIES	
Long/Lat.: 40.07086 / -109.56337		Q-Q/Sect/Town/Range: NWNW / 4 / 9S / 21E				

## Wellbore: SANTIO 4-191X

MTD	10,943	TVD	10,936	PBMD	10,864	PBTVD		
EVENT INFORMATION:		EVENT ACTIVITY: DRILLING		START DATE: 10/27/2008		AFE NO.: 2027329		
		OBJECTIVE: DEVELOPMENT		END DATE: 12/8/2008				
		OBJECTIVE 2: VERTICAL WELL		DATE WELL STARTED PROD.:				
		REASON: SURFACE FAC		Event End Status: SUSPENDED				
RIG OPERATIONS:		Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
		11/16/2008	11/16/2008	11/16/2008	11/16/2008	11/19/2008	11/19/2008	11/19/2008
Date	Time Start-End	Duration (hr)	Phase	Code	Subco- de	P/U	Operation	
11/16/2008	SUPERVISOR: JAMES GOBER		MD: 1,188					
	0:00 - 12:00	12.00	DRLSUR	02		P	MIRU AIR RIG SPUD 11/16/2008 03:00 DRILL TO 570'. CIRC W/ SKID PUMP	
	12:00 - 0:00	12.00	DRLSUR	02		P	DRILL W/ SKID PUMP TO 1170' (LITTLE WATER @ 1140')	
11/17/2008	SUPERVISOR: JAMES GOBER		MD: 1,878					
	0:00 - 12:00	12.00	DRLSUR	02		P	DRILL F/ 1170' TO 1500' NO WATER	
	12:00 - 0:00	12.00	DRLSUR	02			DRILL F/ 1500' TO 1860' NO WATER	
11/18/2008	SUPERVISOR: JAMES GOBER		MD: 2,578					
	0:00 - 12:00	12.00	DRLSUR	02		P	DRILL F/ 1860' - 2230' CIRC W/ SKID PUMP	
	12:00 - 0:00	12.00	DRLSUR	02		P	DRILL F/ 2230' - 2760' CIRC W/ SKID PUMP	
11/19/2008	SUPERVISOR: JAMES GOBER		MD: 2,888					
	0:00 - 11:00	11.00	DRLSUR	02		P	RIG T/D @ 2870' CONDITION HOLE 1 HR RUN SURVEY .8 DEG.	
	11:00 - 15:00	4.00	DRLSUR	05		P	TRIP DP OUT OF HOLE	
	15:00 - 18:00	3.00	DRLSUR	11		P	RUN 2834' OF 9 5/8 CSG AND 200' OF 1" PIPE RIG DOWN AIR RIG	
	18:00 - 19:00	1.00	DRLSUR	15		P	CEMENT 1ST STAGE WITH 270 SKS LEAD @ 11# 3.82 23 GAL/SK AND 200 SKS TAIL @ 15.8# 1.15 5.0 GAL/SK GOOD RETURNS THRU OUT JOB + - 30 BBL LEAD CMT TO PIT PUMPED 2 BBL OVER DISPLACMENT DID NOT LAND PLUG	
	19:00 - 19:30	0.50	DRLSUR	15		P	1ST TOP JOB 125 SKS DOWN 1" PIPE GOOD CMT TO SURFACE AND FELL BACK WOC	
	19:30 - 21:00	1.50	DRLSUR	15		P	2ND TOP JOB 100 SKS DOWN BS GOOD CMT TO SURFACE AND STAYED AT SURFACE	
	21:00 - 21:00	0.00	DRLSUR				NO VISIBLE LEAKS PIT 75% FULL WORT	
11/21/2008	SUPERVISOR: JIM MURRAY		MD: 2,888					
	0:00 - 10:00	10.00	DRLPRO	01	E	P	RDRT	

Wins No.: C0891		SANTIO 4-191X					API No.: 4304740406	
	0:00 - 10:00	10.00	DRLPRO	01	E	P	RDRT	
	10:00 - 18:00	8.00	DRLPRO	01	A	P	SET OUT FRONT END,LOWER DERRICK,@ 1700 HRS,TRANSFER 800 BBLS DRILL MUD,MOVE TRAILERS, 2 BED TRUCKS 3 HAUL TRUCKS,1 FORKLIFT,MAN HRS TODAY=90	
	18:00 - 0:00	6.00	DRLPRO	12	D	P	SFTN	
11/22/2008	<u>SUPERVISOR:</u> JIM MURRAY						<u>MD:</u> 2,888	
	0:00 - 7:00	7.00	DRLPRO	12	D	P	WAIT ON DAYLIGHT	
	7:00 - 18:00	11.00	DRLPRO	01	A	P	RIG DOWN & LOAD OUT RIG MOB 19+ MILES TO SANTIO 4-191X W/ 12 HAUL TRUCKS,5 BED TRUCKS,1 FORKLIFT,1 CRANE,RIG 100% MOVED,SET MATS,STACK SUBS,SFTN	
	18:00 - 0:00	6.00	DRLPRO	12	D	P	WAIT ON DAYLITE	
11/23/2008	<u>SUPERVISOR:</u> JIM MURRAY						<u>MD:</u> 2,888	
	0:00 - 7:00	7.00	DRLPRO	12	D	P	WAIT ON DAY LIGHT	
	7:00 - 0:00	17.00	DRLPRO	01	B	P	SET SUBS,DWKS,PUT DERRICK ON FLOOR,SET PITS,PUMPS,LP,WATER TANK,DOG HOUSE,WINDWALLS,400 UPRIGHTS,KOOMEY HOUSE,DERRICK UP @ 15:30 CRANE GONE @ 14:30 TRUCKS @ 15:00,RUN ELECTRIC & WATER LINES,RIG UP BOILER,& HEATERS,HOOKE UP GAS BUSTER & FLARE LINES,RIG UP FLOOR, MAN HRS =366	
11/24/2008	<u>SUPERVISOR:</u> JIM MURRAY						<u>MD:</u> 2,888	
	0:00 - 16:00	16.00	DRLPRO	07	A	S	RIG REPAIR,WELD ON DRUM DRILL LINE NOT SPOOLING RIGHT,CHANGE OUT HOPPER PUMP,WORK ON PUMPSTHAW OUT FROZEN WATER & MUD LINES,CHANGE 2 BLADDERS IN NITROGEN BOTTLES IN KOOMEY	
	16:00 - 19:00	3.00	DRLPRO	13	A	P	NIPPLE UP BOPE,RIG ACCEPTED ON DAY WORK @ 16:00 HRS 11/24/2008	
	19:00 - 0:00	5.00	DRLPRO	13	C	P	TEST BLIND & PIPE RAMS,KELLY,CHOKE LINE & ALL VALVES TO 5000,HIGH, 250 LO,	
11/25/2008	<u>SUPERVISOR:</u> JIM MURRAY						<u>MD:</u> 2,958	
	0:00 - 3:00	3.00	DRLPRO	13	C	P	TEST BLIND RAMS, 5000 HIGH 250 LO,CSG TO 1500,ANNULAR WOULD NOT TEST	
	3:00 - 8:30	5.50	DRLPRO	05	A	P	SM W/ WEATHERFORD & RIG CREWS,PU BHA & DP,RD SAME	
	8:30 - 10:00	1.50	DRLPRO	05	L	S	TOH TO CHANGE ANNULAR ELEMENT	
	10:00 - 18:00	8.00	DRLPRO	13	D	P	NIPPLE DOWN FLOWLINE,REMOVE ROTATING HEAD,REPLACE CLOSING ELEMENT IN ANNULAR PREVENTER,& TEST TO 2500# NU ROTATING HEAD & FLOWLINE	
	18:00 - 19:00	1.00	DRLPRO	05	A	P	MU BIT TRIP IN HOLE TO 2750'	
	19:00 - 20:30	1.50	DRLPRO	06	D	P	CUT DRILL LINE	
	20:30 - 22:30	2.00	DRLPRO	02	F	P	DRILL CEMENT & FE, TAG CEMENT @ 2800	
	22:30 - 23:00	0.50	DRLPRO	09	A	P	WIRELINE SURVEY @ 2776 = 1.12 DEG	
	23:00 - 0:00	1.00	DRLPRO	02	B	P	SPUD IN AND DRILL ACTUAL 2870-2940 = 70' = 70 FPH, MW 9.8#	
11/26/2008	<u>SUPERVISOR:</u> RON SJOSTROM						<u>MD:</u> 4,268	
	0:00 - 5:30	5.50	DRLPRO	02	B	P	DRILL 2940-3240 = 300' = 54.5 FPH, MW 9.8#	

Wells No.: C0891		SANTIO 4-191X					API No.: 4304740406	
	0:00 - 5:30	5.50	DRLPRO	02	B	P	DRILL 2940-3240 = 300' = 54.5 FPH, MW 9.8#	
	5:30 - 6:00	0.50	DRLPRO	06	C	P	CHANGE OUT PISTON MP#1	
	6:00 - 16:00	10.00	DRLPRO	02	B	P	DRILL 3240-3801 = 561' = 56.1 FPH, MW 9.8#	
	16:00 - 16:30	0.50	DRLPRO	06	A	P	RIG SERVICE	
	16:30 - 17:00	0.50	DRLPRO	09	A	P	WIRELINE SURVEY @ 3726 = 1.6 DEG	
	17:00 - 0:00	7.00	DRLPRO	02	B	P	DRILL 3801-4250 = 449' = 64.1 FPH, MW 9.8#	
11/27/2008	<u>SUPERVISOR:</u> RON SJOSTROM							<u>MD:</u> 5,458
	0:00 - 11:00	11.00	DRLPRO	02	B	P	DRILL 4250-4814 = 564' = 21.3 FPH, MW 9.8#	
	11:00 - 11:30	0.50	DRLPRO	06	A	P	RIG SERVICE	
	11:30 - 12:00	0.50	DRLPRO	09	A	P	WIRELINE SURVEY @ 4740 = 2.27 DEG	
	12:00 - 0:00	12.00	DRLPRO	02	B	P	DRILL 4814-5440 = 626' = 52.2 FPH, MW 10.0#	
11/28/2008	<u>SUPERVISOR:</u> RON SJOSTROM							<u>MD:</u> 6,416
	0:00 - 14:30	14.50	DRLPRO	02	B	P	DRILLING 5440-6016 = 576' = 39.7 FPH, MW 10.0#	
	14:30 - 15:00	0.50	DRLPRO	06	A	P	RIG SERVICE	
	15:00 - 15:30	0.50	DRLPRO	09	A	P	WIRELINE SURVEY @ 5940 = 1.98 DEG	
	15:30 - 0:00	8.50	DRLPRO	02	B	P	DRILLING 6016-6398 = 382' = 44.9 FPH, MW 10.1#	
11/29/2008	<u>SUPERVISOR:</u> RON SJOSTROM							<u>MD:</u> 6,966
	0:00 - 15:30	15.50	DRLPRO	02	B	P	DRILL 6398-6935 = 537' = 34.6 FPH, MW 10.2# HOLE TAKING FLUID @ 10#, MIXING LCM SWEEPS, REMOVE SHAKER SCREEN, INCREASE LCM TO 4%, LOSSES STOPPED, INCREASE MW TO 10.2 DUE TO SLOUGHING SHALES	
	15:30 - 16:00	0.50	DRLPRO	06	A	P	RIG SERVICE	
	16:00 - 17:30	1.50	DRLPRO	02	B	P	DRILL 6935-6966 = 31' = 20.7 FPH, MW 10.2#, NO LOSSES, MIX SLUG FOR TRIP	
	17:30 - 22:00	4.50	DRLPRO	05	A	P	TRIP OUT BIT #1, L/D IBS'S, CHANGE MUD MOTORS	
	22:00 - 0:00	2.00	DRLPRO	05	A	P	M/U BIT #2, TRIP IN HOLE	
11/30/2008	<u>SUPERVISOR:</u> RON SJOSTROM							<u>MD:</u> 7,693
	0:00 - 3:00	3.00	DRLPRO	05	A	P	TRIP IN WITH BIT #2, WORK THROUGH BRIDGE @ 5480, RIH, WASH 75' TO TD-15' FILL, 13 BBL LOST ON TRIP	
	3:00 - 15:30	12.50	DRLPRO	02	B	P	DRILL 6966-7400 = 434' = 34.7 FPH, MW 10.4#, SHAKERS BYPASSED, 4% LCM NO LOSSES	
	15:30 - 16:00	0.50	DRLPRO	06	A	P	RIG SERVICE	
	16:00 - 0:00	8.00	DRLPRO	02	B	P	DRILL 7400-7693 = 293' = 36.6 FPH, MW 10.4#, SHAKERS BYPASSED, 4% LCM NO LOSSES	
12/1/2008	<u>SUPERVISOR:</u> RON SJOSTROM							<u>MD:</u> 8,440
	0:00 - 13:30	13.50	DRLPRO	02	B	P	DRILL 7693-8096 = 403 = 29.9 FPH, MW 10.4#	

Wins No.: C0891		SANTIO 4-191X					API No.: 4304740406	
	13:30 - 14:00	0.50	DRLPRO	06	A	P	RIG SERVICE	
	14:00 - 0:00	10.00	DRLPRO	02	B	P	DRILL 8096-8422 = 326' = 32.6 FPH, MW 10.4#	
12/2/2008	<u>SUPERVISOR:</u> RON SJOSTROM						<u>MD:</u> 9,108	
	0:00 - 15:00	15.00	DRLPRO	02	B	P	DRILL 8422-8887 = 201' = 31 FPH, MW 10.6#	
	15:00 - 15:30	0.50	DRLPRO	06	A	P	RIG SERVICE	
	15:30 - 0:00	8.50	DRLPRO	02	B	P	DRILL 8887-9090 = 203' = 23.9FPH, MW 10.6# , RAISE WT TO 10.8# DUE TO SLOUGHING SHALE, HOLE TAKING FLUID, INCREASE LCM TO 4%	
12/3/2008	<u>SUPERVISOR:</u> RON SJOSTROM						<u>MD:</u> 9,493	
	0:00 - 6:30	6.50	DRLPRO	02	B	P	DRILL 9090-9203 = 113' = 17.4 FPH, MW 10.8#, 9% LCM FALLING TO 4%	
	6:30 - 7:30	1.00	DRLPRO	04	C	P	CIRCULATE & BUILD SLUG FOR TRIP	
	7:30 - 11:30	4.00	DRLPRO	05	A	P	TRIP OUT BIT #2, WORK THROUGH BRIDGES 5650-5000'	
	11:30 - 13:00	1.50	DRLPRO	05	A	P	M/U BIT #3, TRIP IN TO SHOE	
	13:00 - 14:30	1.50	DRLPRO	06	D	P	SLIP & CUT DRILLING LINE	
	14:30 - 17:00	2.50	DRLPRO	05	A	P	TRIP IN HOLE W/BIT #3, WORK THROUGH BRIDGES 4850-5500	
	17:00 - 17:30	0.50	DRLPRO	03	E	P	WASH & REAM 45' TO TD	
	17:30 - 0:00	6.50	DRLPRO	02	B	P	DRILLING 9203-9475 = 272' = 41.9 FPH, MW 11.0#, 4% LCM	
12/4/2008	<u>SUPERVISOR:</u> RON SJOSTROM						<u>MD:</u> 10,382	
	0:00 - 15:00	15.00	DRLPRO	02	B	P	DRILL 9475-10089, 614' = 40.9 FPH, MW 11.2#, SOME SEEPAGES, INC TO 7% LCM	
	15:00 - 15:30	0.50	DRLPRO	06	A	P	RIG SERVICE	
	15:30 - 0:00	8.50	DRLPRO	02	B	P	DRILL 10089-10364 = 295' = 34.7 FPH, MW 11.4#, SOME SEEPAGES, INC LCM TO 9%	
12/5/2008	<u>SUPERVISOR:</u> RON SJOSTROM						<u>MD:</u> 10,868	
	0:00 - 0:30	0.50	DRLPRO	02	B	P	DRILL 10364-10368, MW 11.4# LCM 4%	
	0:30 - 1:30	1.00	DRLPRO	06	C	P	CHANGE 1 SEAT & 2 VALVES MP#1	
	1:30 - 2:00	0.50	DRLPRO	02	B	P	DRILL 10368-10392 = 24', MW 11.4#, 10% LCM	
	2:00 - 2:30	0.50	DRLPRO	06	C	P	CHANGE 1 SEAT & 3 VALVES MP#2	
	2:30 - 9:30	7.00	DRLPRO	02	B	P	DRILL 10392-10584 = 192' = 27.4 FPH, MW 11.4#, 10% LCM	
	9:30 - 10:00	0.50	DRLPRO	06	C	P	CHANGE VALVE #2 PUMP	
	10:00 - 14:30	4.50	DRLPRO	02	B	P	DRILL 10584-10691 = 107' = 13.8 FPH, MW 11.6#, HOLE TAKING FLUID, INC TO 12% LCM	
	14:30 - 15:00	0.50	DRLPRO	06	A	P	RIG SERVICE	
	15:00 - 23:30	8.50	DRLPRO	02	B	P	DRILL 10691-10850 = 159' = 18.7 FPH , MW 11.6#, INC LCM TO 15%, OCCASIONAL LOSSES	



Wins No.: C0891		SANTIO 4-191X						API No.: 4304740406
	15:00 - 23:30	8.50	DRLPRO	02	B	P	DRILL 10691-10850 = 159' = 18.7 FPH, MW 11.6#, INC LCM TO 15%, OCCASIONAL LOSSES	
	23:30 - 0:00	0.50	DRLPRO	03	A	X	WORK THROUGH TIGHT HOLE AT CONNECTION 10834-10775	
12/6/2008	<u>SUPERVISOR:</u> RON SJOSTROM						<u>MD:</u> 10,943	
	0:00 - 0:30	0.50	DRLPRO	03	A	X	WORK TIGHT HOLE 10850-10775	
	0:30 - 5:30	5.00	DRLPRO	02	B	P	DRILL 10850-10925 TD = 75' = 15 FPH, INC MW TO 12.0#, LCM 15%, NO LOSSES	
	5:30 - 7:30	2.00	DRLPRO	04	F	P	CIRCULATE BOTTOMS UP, CIRCULATE HI-VIS SWEEP AROUND	
	7:30 - 11:30	4.00	DRLPRO	05	E	P	WIPER TRIP UP TO 5400, WORK THROUGH TIGHT SPOTS, TRIP IN	
	11:30 - 12:30	1.00	DRLPRO	07	A	Z	DRAWWORKS HIGH CLUTCH PROBLEM, TROUBLESHOOT SAME	
	12:30 - 14:00	1.50	DRLPRO	05	E	P	FINISH TRIP IN, WASH 30 TO TD	
	14:00 - 0:00	10.00	DRLPRO	04	D	X	HOLE TAKING FLUID & GASSY, INCREASE LCM CONTENT TO 22%, INCREASE MW TO 12.3#, SPORADIC SEEPAGE, TOTAL MUD LOST 200BBL	
12/7/2008	<u>SUPERVISOR:</u> RON SJOSTROM						<u>MD:</u> 10,943	
	0:00 - 9:30	9.50	DRLPRO	05	A	P	PUMP SLUG, DROP SURVEY, LAY DOWN DRILL STRING, BREAK KELLY, PULL WEAR BUSHING	
	9:30 - 16:30	7.00	DRLPRO	12	E	S	WAIT ON HALLIBURTON LOGGING TRUCK TO ARRIVE FROM ANOTHER LOCATION--CIRCULATING OVER WELLHEAD--WELL STATIC	
	16:30 - 22:30	6.00	DRLPRO	08	A	P	R/U HALLIBURTON LOGGING EQUIPMENT, RUN TRIPLE COMBO-TOOL BRIDGED OUT @ 7662, LOG OUT, R/D TOOLS	
	22:30 - 0:00	1.50	DRLPRO	11	A	P	R/U CASING EQUIPMENT, HOLD SAFETY MEETING	
12/8/2008	<u>SUPERVISOR:</u> RON SJOSTROM						<u>MD:</u> 10,943	
	0:00 - 7:30	7.50	DRLPRO	11	B	P	RUN 259 JTS 4-1/2 11.6# P-110 PRODUCTION CASING, SHOE SET@10917, SET FLUTED HANGER IN BOWL	
	7:30 - 9:00	1.50	DRLPRO	04	E	Z	ATTEMPT TO CIRCULATE DOWN CASING, STRING PLUGGED, HOOK UP HALLIBURTON & BREAK CIRCULATION WITH WATER @ 4500 PSI.	
	9:00 - 11:00	2.00	DRLPRO	04	E	P	CIRCULATE WITH RIG PUMP DOWN CASING	
	11:00 - 14:30	3.50	DRLPRO	15	A	P	SAFETY MEETING, R/U CEMENT HEAD, TEST LINES, PUMP WATER, SPACER, 20SX SCAVENGER 9.5#, 700SX LEAD 12.0#, 1400SX TAIL 14.3#, DROP PLUG & DISPLACE WITH 168 BBL WATER, BUMP PLUG TO 3350#, FLOATS HELD, R/D HALLIBURTON. CEMENT RETURNS TO PIT 112 BBLs.	
	14:30 - 15:30	1.00	DRLPRO	11	B	P	INSTALL HANGER SEAL & TEST SEALS-OK	
	15:30 - 20:00	4.50	DRLPRO	01	E	P	CLEAN PITS, NIPPLE DOWN BOPS, RIG RELEASED TO OURAY 35-151 12/8/08 2000 HRS.	

Wins No.: C0891		SANTIO 4-191X				API No.: 4304740406		
EVENT INFORMATION:		EVENT ACTIVITY: COMPLETION		START DATE: 12/19/2008		AFE NO.: 2027329		
		OBJECTIVE: DEVELOPMENT		END DATE: 12/25/2008				
		OBJECTIVE 2: ORIGINAL		DATE WELL STARTED PROD.:				
		REASON: MV		Event End Status: COMPLETE				
RIG OPERATIONS:		Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
KEY 243 / 243		12/19/2008						12/25/2008
Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation	
12/19/2008	SUPERVISOR: RON SJOSTROM						MD:	
	7:00 - 17:00	10.00	COMP	31		P	7:00 HSM. RU RIG. ND WELLHEAD. NU BOP. PU 37/8" MILL. RIH W/ 23/8" L-80 TBG. 240 JTS, EOT 7500. POOH W/ TBG & MILL. ND BOP. NU FRAC VALVES. FILL WELL, RU PRES TESTER. PRES TEST TO 7500 PSI, HELD. BLED PRES. SWI 5:30 PM	
12/20/2008	SUPERVISOR: JON E MILES						MD:	
	7:00 - 7:15	0.25	COMP	48		P	HSM, P/T	
	7:15 - 15:00	7.75	COMP	33	C	P	MIRU B&C QUICK TEST, CHANGE OUT FRAC VALVES, PRESSURE TEST TO 6200# [GOOD TEST]	
12/22/2008	SUPERVISOR: KEN WARREN						MD:	
	7:00 - 7:15	0.25	COMP	48		P	HSM, ON COLD WEATHER	
	7:15 - 17:00	9.75	COMP	36	E	P	MIRU WEATHERFORD FRAC & CUTTERS WIRE LINE, LATE GETTING STARTED DUE TO WEATHER & SMALL LOC.	
STG #1] P/U, RIH, PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 10728'-10732' 4 SPF, 90° PH, 16 HOLES, 10697'-10699' 3 SPF, 120° PH, 6 HOLES, 10674'-10676' 3 SPF, 120° PH, 6 HOLES, 10584'-10586' 3 SPF, 120° PH, 10548'-10550' 3 SPF, 120° PH, 6 HOLES [40 HOLES,								
WHP=800#, BRK DN PERFS @ 3311#, INJT PSI=5450#, INJT RT=51.3, ISIP=2919#, FG=.71, PUMP'D 4645.7 BBLS SLK WTR W/ 163877# 30/50 MESH W/ 5190# RESIN COAT IN TAIL, ISIP=3793#, FG=.79, AR=51.3, AP=5275#, MR=51.8, MP=5515#, NPI=874#, 30/40 CALC PERFS OPEN, 75%.								
STG #2] P/U RIH W/ BKR 8K CBP & PERFR GUN, SET CBP @ 10478' PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 4 SPF, 90° PH, 10444'-10448' 16 HOLES, 10370'-10372' 8 HOLES, 10333'-10336' 12 HOLES, 10278'-10280' 8 HOLES, [44 HOLES]								
WHP=4500#, BRK DN PERFS @ 3871#, INJT PSI=3482#, INJT RT=50.6, ISIP=3482#, FG=.77, PUMP'D 1345 BBLS SLK WTR W/ 49450# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=3781#, FG=.80, AR=51.0, AP=5486#, MR=51.7, MP=6414#, NPI=299#, 28/44 CALC PERFS OPEN 65%.								
STG #3] P/U RIH W/ BKR 8K CBP & PERF GUN, SET CBP @ 10222' PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 10190'-10192' 3 SPF, 120° PH, 6 HOLES, 10150'-10154' 3 SPF, 120° PH, 12 HOLES, 10022'-10026' 4 SPF, 90° PH, 16 HOLES, 9994'-9996' 4 SPF, 90° PH, 8 HOLES, [44 HOLES]								
WHP=2800#, BRK DN PERFS @ 4003#, INJT PSI=5565#, INJT RT=51.2, ISIP=3457#, FG=.78, PUMP'D 3006.2 BBLS SLK WTR W/ 11534# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=3218#, FG=.75, AR=51.4, AP=5199#, MR=54.5, MP=6102#, NPI=-239#, 38/42 CALC PERFS OPEN 90%.								
12/23/2008	SUPERVISOR: KEN WARREN						MD:	
	7:00 - 7:15	0.25	COMP	48		P	HSM, STARTING EQUIP IN COLD WEATHER	

7:15 - 18:00 10.75 COMP 36 E P

STG #4] OPEN WELL P/U RIH W/ BKR 8K CBP & PERF GUN. SET CBP @ 9901', PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 4 SPF, 90 PH, 9866'-9871' 20 HOLES, 9784'-9788' 16 HOLES.

WHP=2800#, INJT PSI=5419#, INJT RT=48.5, ISIP=3061#, FG=.75, PUMP'D 1481 BBLS SLK WTR W/ 56054# 30/50 MESH W/ 5300# RESIN COAT IN TAIL. ISIP=3331#, FG=.77, AR=51.1, AP=5080#, MR=54.2, MP=6100#, NPI=270#, 31/36 CALC PERFS OPEN 85%.

STG #5] P/U RIH W/ BKR 8K CBP & PERF GUN. SET CBP @ 9450', PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 4 SPF, 90\* PH, 9410'-9420' [40 HOLES].

WHP=1000#, BRK DN PERFS @ 3189#, INJT PSI=5728#, INJT RT=50.9, ISIP=2775#, FG=.72, PUMP'D 910.8 BBLS SLK WTR W/ 31880# 30/50 MESH W/ 5100# RESIN COAT IN TAIL, ISIP=3556#, FG=.81, AR=51.6, AP=5300#, MR=54.1, MP=6254#, NPI=781#, 27/40 CALC PERFS OPEN 67%.

STG #6] P/U RIH W/ BKR 8K CBP & PERF GUN, SET CBP @ 9182', PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 4 SPF, 90\* PH, 9146'-9152' 24 HOLES, 9074'-9076' 8 HOLES, 9026'-9028' 8 HOLES [40 HOLES]

WHP=1300#, BRK DN PERFS @ 3537#, INJT RT=5200#, INJ RT=51.1, ISIP=3056#, FG=.78, PUMP'D 960.7 BBLS SLK WTR W/ 33845# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=3065#, FG=.78, AR=51.3, AP=4763#, MR=51.7, MP=6796#, NPI=9#, 37/40 CALC PERFS OPEN 92%.

STG#7] P/U RIH W/ BKR 8K CBP & PERF GUN. SET CBP @ 8978', PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 4 SPF, 90\* PH, 8942'-8948' 24 HOLES, 8904'-8908' 16 HOLES [40 HOLES]

WHP=2600#, BRK DN PERFS @ 3089#, INJT PSI=5461#, INJT RT=50.8, ISIP=2797#, FG=.76, PUMP'D 1259.8 BBLS SLK WTR W/ 46597# 30/50 MESH W/ 4566# RESIN COAT IN TAIL, ISIP=3209#, FG=.80, AR=51.2, AP=4868#, MR=51.5, MP=5559#, NPI=412#, 28/40 CALC PERFS OPEN. 70%

STG #8] P/U RIH W/ BKR 8K CBP & PERF GUN, SET CBP @ 8768', PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 4 SPF, 90\* PH, 8734'-8738' 16 HOLES, 8696'-8702' 24 HOLES [40 HOLES]

WHP=600#, BRK DN PERFS @ 3375#, INJT PSI=5250#, INJT RT=49.5, ISIP=2255#, FG=.69, PUMP'D 803.8 BBLS SLK WTR W/ 32525# 30/50 MESH W/ 5400# RESIN COAT IN TAIL. ISIP=2996#, FG=.78, AR=49.3, AP=4599#, MR=51.4, MP=5905#, NPI=741#, 26/40 CALC PERFS OPEN 65%.

P/U RIH W/ BKR 8K CBP & SET @ 8646'. R/D CUTTERS WIRE LINE & WEATHERFORD FRAC, N/D FRAC VALVES, N/U BOPS, R/U TBG EQUIP, SWIFN.

12/24/2008 SUPERVISOR: KEN WARREN

MD:

7:00 - 7:15 0.25 COMP 48 P  
7:15 - 7:15 0.00 COMP

HSM, REVIEW WORKING IN CLOUD WEATHER  
TEMPERATURE @ RIIG -20\* , PROBLEMS GETTING THINGS  
STATRED, RIH W/ 2-3/8 TBG RIG KEEPS FREEZING UP, 15:00  
SWI, WINTERIZE EVERYTHING TO COME BACK 12/26/2008 TO  
DRL PLUGS.

12/25/2008 SUPERVISOR: KEN WARREN

MD:

7:00 - 7:15 0.25 COMP 48 P

HSM, REVIEW DLG PLUGS

7:15 - 17:00 9.75 COMP 44 C P OPEN WELL 0# CSG, 0# TBG, P/U 2 JNTS, PWR SWWL, EST CIRC W/ RIG PUMP.

PLUG #1] TAG BKR 8K CBP @ 8646' DRL THROUGH IN 10 MIN. 200# INCREASE, CONTINUE TO RIH.

PLUG #2] TAG SAND @ 8738' [30' FILL] C/O & DRL THROUGH BKR 8K CBP @ 8768' IN 8 MIN. 200# INCREASE. CONTINUE TO RIH.

PLUG #3] TAG SAND @ 8948' [30' FILL] C/O & DRL THROUGH BKR 8K CBP @ 8978' IN 10 MIN. 100# INCREASE, CONTINUE TO RIH.

PLUG #4] TAG SAND @ 9152' [30' FILL] C/O & DRL THROUGH BKR 8K CBP @ 9182' INN 10 MIN. 100# INCREASE, CONTINUE TO RIH.

PLUG #5] TAG SAND @ 9420' [30' FILL] C/O & DRL THROUGH BKR 8K CBP @ 9450' IN 10 MIN, 200# INCREASE, CONTINUE TO RIH.

PLUG #6] TAG SAND @ 9871' [30' FILL] C/O & DRL THROUGH BKR 8K CBP @ 9901' IN 10 MIN. 400# INCREASE, CONTINUE TO RIH.

PLUG #7] TAG SAND @ 10192' [30' FILL] C/O & DRL THROUGH BKR 8K CBP @ 10222' IN 10 MIN. 300# INCREASE, CONTINUE TO RIH.

PLUG #8] TAG SAND @ ' [ ' FILL] C/O & DRL THROUGH BKR 8K CBP @ 10478' IN 10 MIN. CONTINUE TO RIH TAG @ 10738' C/O TO 10864' CIRC HOLE FOR 30 MIN. L/D 21 JNTS [24 TOTAL ON FLOAT] P/U & LAND ON HANGER W/ 323 JNTS 2-3/8 L-80 TBG [EOT @ 10223.67] R/D TBG EQUIP, N/D BOPS, N/U WELL HEAD, PUMP OFF BIT W/ 1/2 BBL @ 3200#, TURN WELL OVER TO FLOW BACK CREW.

12/27/2008	SUPERVISOR: BECKY ROSS	7:00 -	33	A	MD:	7 AM FLBK REPORT: CP 2700#, TP 1700#, 20/64" CK, 60 BWPH, 1/2C SAND, - GAS TTL BBLS RECOVERED: 3570 BBLS LEFT TO RECOVER: 10844
12/28/2008	SUPERVISOR: BECKY ROSS	2:30 - 7:00 -	PROD	33	A	MD: WELL TURNED TO SALES @ 0230 HRO N 12/28/08 - FTP 1800#, CP 3000#, CK 20/64", 1285 MCFD, 600 BWPD 7 AM FLBK REPORT: CP 2100#, TP 1700#, 20/64" CK, 45 BWPH, - SAND, - GAS TTL BBLS RECOVERED: 4815 BBLS LEFT TO RECOVER: 9599
12/29/2008	SUPERVISOR: BECKY ROSS	7:00 -	33	A	MD:	7 AM FLBK REPORT: CP 3000#, TP 1800#, 20/64" CK, 25 BWPH, - SAND, 1285 GAS TTL BBLS RECOVERED: 5440 BBLS LEFT TO RECOVER: 8974
12/30/2008	SUPERVISOR: BECKY ROSS	7:00 -	33	A	MD:	7 AM FLBK REPORT: CP 3300#, TP 2100#, 20/64" CK, 20 BWPH, CLEAN SAND, 1528 GAS TTL BBLS RECOVERED: 5995 BBLS LEFT TO RECOVER: 8419
<div> <div>EVENT INFORMATION:</div> <div> <div>EVENT ACTIVITY: COMPLETION</div> <div>OBJECTIVE: CONSTRUCTION</div> <div>OBJECTIVE 2: ORIGINAL</div> <div>REASON: SURFACE FAC</div> </div> <div> <div>START DATE: 12/23/2008</div> <div>END DATE: 12/23/2008</div> <div>DATE WELL STARTED PROD.: . . . .</div> <div>Event End Status: COMPLETE</div> </div> <div>AFE NO.: 2027329</div> </div>						
<div> <div>RIG OPERATIONS:</div> <div> <div>Begin Mobilization</div> <div>Rig On Location</div> <div>Rig Charges</div> <div>Rig Operation Start</div> <div>Finish Drilling</div> <div>Rig Release</div> <div>Rig Off Location</div> </div> </div>						
Date	Time Start-End	Duration (hr)	Phase	Code	Subco de	P/U Operation
12/23/2008	SUPERVISOR: HAL BLANCHARD					MD:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.**5. Lease Serial No.  
1420H6238946. If Indian, Allottee or Tribe Name  
UINTAH AND OURAY  
ALLOTTED**SUBMIT IN TRIPLICATE** – Other instructions on page 2.

## 1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other2. Name of Operator  
KERR MCGEE OIL & GAS ONSHORE LP3a. Address  
1368 SOUTH 1200 EAST VERNAL, UTAH 840783b. Phone No. (include area code)  
435.781.70247. If Unit of CA/Agreement, Name and/or No.  
CA: UTU-080491-84C7258. Well Name and No.  
SANTIO 4-191X9. API Well No.  
43047404064. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
NW/NW SEC. 4, T9S, R21E 494'FNL, 609'FWL10. Field and Pool or Exploratory Area  
NATURAL BUTTES11. Country or Parish, State  
UINTAH COUNTY, UTAH

## 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>WELL SPUD</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE.  
CMT W/28 SX READY MIX.

SPUD WELL LOCATION ON 10/21/2008 AT 0800 HRS.

14. I hereby certify that the foregoing is true and correct.

Name (Printed/Typed)  
SHEILA UPCHEGO

Title REGULATORY ANALYST

Signature

Date 12/29/2008

## THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

RECEIVED  
DEC 31 2008

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT**CONFIDENTIAL**FORM APPROVED  
OMB NO. 1004-0137  
Expires: July 31, 2010**WELL COMPLETION OR RECOMPLETION REPORT AND LOG**1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other  
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,

Other: \_\_\_\_\_

2. Name of Operator  
KERR MCGEE OIL & GAS ONSHORE LP3. Address  
1368 SOUTH 1200 EAST VERNAL, UTAH 840783a. Phone No. (include area code)  
435.781.7024

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

At surface NW/NW, LOT. 4, 494'FNL, 609'FNL

At top prod. interval reported below

At total depth

14. Date Spudded  
10/21/200815. Date T.D. Reached  
12/06/200816. Date Completed 12/28/2008  
☐ D & A ☒ Ready to Prod.18. Total Depth: MD 10,925'  
TVD19. Plug Back T.D.: MD 10,864'  
TVD20. Depth Bridge Plug Set: MD  
TVD

21. Type Electric &amp; Other Mechanical Logs Run (Submit copy of each)

CBL-CCL-GR, RAB, RPM, SD, DSN, ACTR

22. Was well cored? ☒ No ☐ Yes (Submit analysis)  
Was DST run? ☒ No ☐ Yes (Submit report)  
Directional Survey? ☐ No ☐ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20"	14" STEEL	36.7#		40'		28 SX			
12 1/4"	9 5/8" J-55	36#		2,870'		695 SX			
7 7/8"	4 1/2 I-80	11.6#		10,925'		2,100 SX			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 3/8"	10,224'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	8,696'	10,732'	8,696'-10,732'	0.36	324	OPEN
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
8,696'-10,732'	PMP 14,413 BBLs SLICK H2O & 529,569# 30/50 OTTOWA SD

DIV. OF OIL, GAS &amp; MINING

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
12/28/08	1/6/09	24'	→	2,375	1,339	552			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
18/64	375#	1,850#	→	2,375	1,339	552		PRODUCING GAS WELL	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)

**RECEIVED****JAN 27 2009****RECEIVED****JAN 27 2009**

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## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

## 29. Disposition of Gas (Solid, used for fuel, vented, etc.)

SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER	2,006'				
BIRDS NEST	2,322'				
MAHOGANY	2,844'				
WASATCH	5,513'	8,415'			
MESAVERDE	8,681'	10,733'			

## 32. Additional remarks (include plugging procedure):

## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)     
 ☐ Geologic Report     
 ☐ DST Report     
 ☐ Directional Survey  
☐ Sundry Notice for plugging and cement verification     
 ☐ Core Analysis     
 ☐ Other:

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) SNEILA UPCHEGO

Title REGULATORY ANALYST

Signature

Date 01/20/2009

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-3894			
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE			
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b>			
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> SANTIO 4-191X (RIGSKID)			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0494 FNL 0609 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 04 Township: 09.0S Range: 21.0E Meridian: S		<b>9. API NUMBER:</b> 43047404060000			
<b>10. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES			
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 1/15/2013  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input checked="" type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input checked="" type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> The operator requests authorization to plug and abandon the subject well. Please see attached plug and abandonment procedure. Thank you.					
<b>Accepted by the</b> <b>Utah Division of</b> <b>Oil, Gas and Mining</b>  <b>Date:</b> January 31, 2013 <b>By:</b> <u>Derek Quist</u>					
<b>NAME (PLEASE PRINT)</b> Jaime Scharnowske	<b>PHONE NUMBER</b> 720 929-6304	<b>TITLE</b> Regulatory Analyst			
<b>SIGNATURE</b> N/A	<b>DATE</b> 1/15/2013				



SANTIO 4-191X  
 494' FNL & 609' FWL  
 NWNW LOT 4, SEC.4, T9S, R21E  
 Uintah County, UT

KBE: 4690' API NUMBER: 4304740406  
 GLE: 4672' LEASE NUMBER: 1420-H623894  
 TD: 10,925'  
 PBTD: 10,864'

CASING : 12 ¼" hole  
 9.625" 36# J-55 @ 2870'  
 Cmt w/ 695 sx  
  
 7.875" hole  
 4.5" 11.6# I-80 @ 10,925'  
 TOC @ Surface per CBL

PERFORATIONS: Mesaverde 8696' – 10,732'

TUBING: EOT @ 10,246' (per completion report dated 12/26/08)

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft./ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02171	0.00387
4.5" 11.6# I-80	3.875	6350	7780	0.6528	0.0872	0.0155
9.625" 36# J-55	8.765	2020	3520	3.247	0.434	0.0773
<b>Annular Capacities</b>						
2.375" tbg. X 4 ½" 11.6# csg				0.4227	0.0565	0.01
4.5" csg X 9 5/8" 36# csg				2.227	0.2977	0.053
4.5" csg X 7.875 borehole				1.704	0.2278	0.0406
9.625" csg X 12 1/4" borehole				2.3428	0.3132	0.0558

#### GEOLOGIC INFORMATION:

Formation	Depth to top, ft.
Uinta	Surface
Green River	2006'
Bird's Nest	2322'
Mahogany	2844'
Base of Parachute	3842'
Wasatch	5513'
Mesaverde	8681'

#### Tech. Pub. #92 Base of USDW's

USDW Elevation	~4500' MSL
USDW Depth	~190' KBE

## SANTIO 4-191X PLUG & ABANDONMENT PROCEDURE

### GENERAL

- H<sub>2</sub>S MAY BE PRESENT. CHECK FOR H<sub>2</sub>S AND TAKE APPROPRIATE PRECAUTIONS.
- CEMENT QUANTITIES BELOW ASSUME NEAT CLASS G, YIELD 1.145 CUFT./SX. IF A DIFFERENT PRODUCT IS USED, WELLSITE PERSONNEL ARE RESPONSIBLE FOR CORRECTING QUANTITIES TO YIELD THE STATED SLURRY VOLUME. WHEN SQUEEZING, INCLUDE 10% EXCESS PER 1000' OF DEPTH.
- TREATED FRESH WATER WILL BE PLACED BETWEEN ALL PLUGS INSTEAD OF BRINE.
- ALL DISPLACEMENT FLUID SHALL CONTAIN CORROSION INHIBITOR AND BIOCIDES. PREMIX 5 GALLONS PER 100 BBLS FLUID.
- NOTIFY BLM 24 HOURS BEFORE MOVING ON LOCATION.
- A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE.

### PROCEDURE

**Note:** Approx. **333 sx** Class "G" cement needed for procedure, **(1) 4.5" CIBP + (1) 4.5" CICR**.

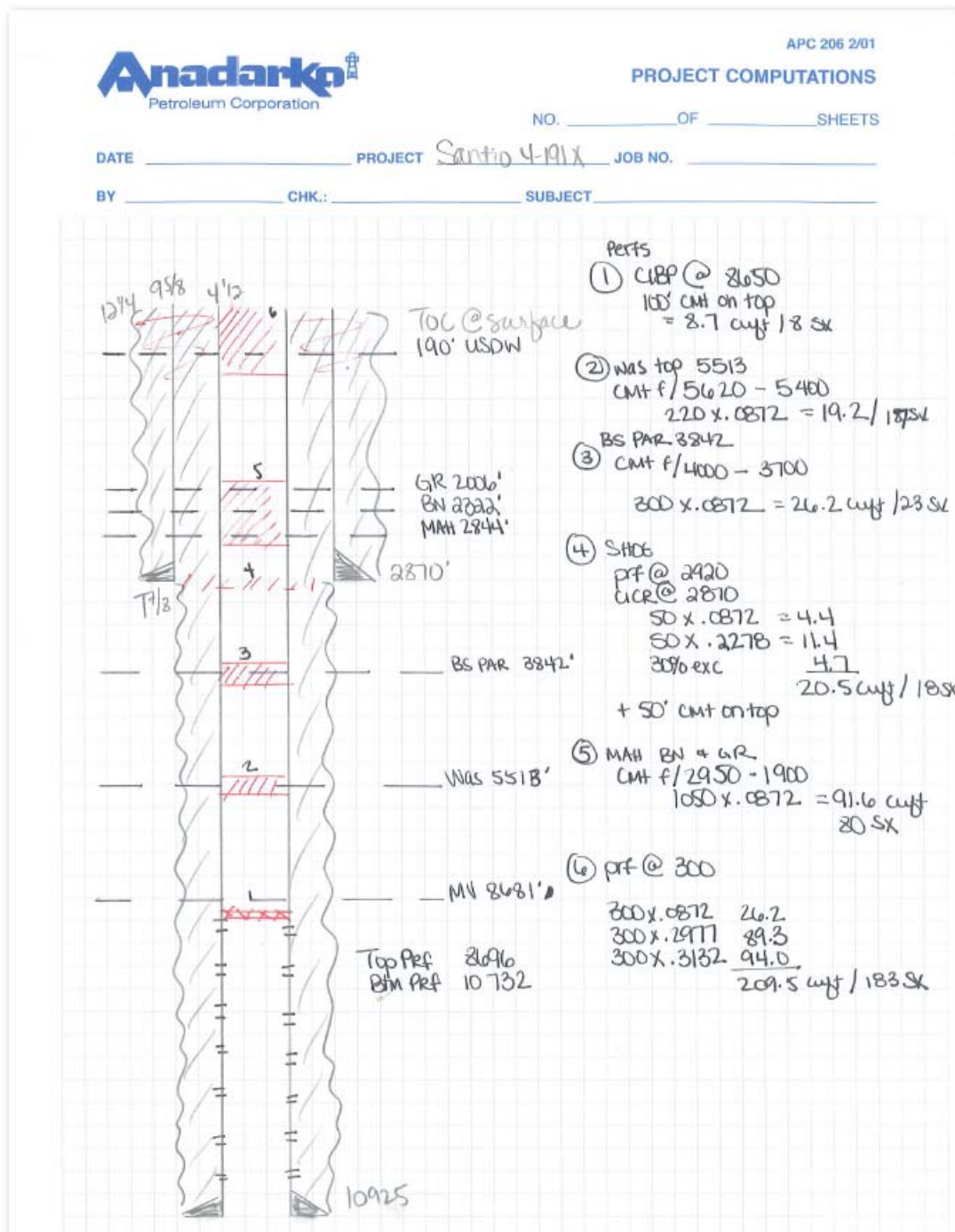
**Note:** No Gyro has not been run on this well.

1. A GPS READING WILL NEED TO BE TAKEN AT THE WELL SITE AND RECORDED IN OPENWELLS. PLEASE TAKE IT TO THE 6TH DECIMAL PLACE.
2. MIRU. KILL WELL AS NEEDED. ND WH, NU AND TEST BOPE.
3. PULL TBG. RU WIRELINE AND MAKE A GAUGE RING RUN TO CHECK FOR FILL. RUN GYRO SURVEY.
4. **PLUG #1, ISOLATE MV PERFORATIONS (8696' - 10,732'):** RIH W/ 4 ½" CIBP. SET @ ~8650'. RELEASE CIBP, PUH 10', BRK CIRC W/ FRESH WATER. RELEASE CIBP, PUH 10', BRK CIRC W/ FRESH WATER. DISPLACE A MINIMUM OF **8 SX / 1.6 BBL / 8.7 CUFT**. ON TOP OF PLUG. PUH ABOVE TOC (~8550'). REVERSE CIRCULATE W/ TREATED WATER.
5. **PLUG #2, PROTECT TOP OF WASATCH (5513'):** PUH TO ~5620'. BRK CIRC W/ FRESH WATER. DISPLACE **17 SX / 3.4 BBL / 19.2 CUFT**. AND BALANCE PLUG W/ TOC @ ~5400' (220' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED WATER.
6. **PLUG #3, PROTECT BASE OF PARACHUTE (~3842'):** PUH TO ~4000'. BRK CIRC W/ FRESH WATER. DISPLACE **23 SX / 4.7 BBL / 26.2 CUFT**. AND BALANCE PLUG W/ TOC @ ~3700' (300' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED WATER.
7. **PLUG #4, PROTECT SURFACE CASING SHOE (2426'):** RIH W/ WIRELINE & PERFORATE @ 2920' W/ 4 SPF. POOH. PU & RIH W/ 4 ½" CICR, SET @ 2870'. RIH W/ TBG & STING INTO CICR & SQUEEZE PERFS W/ APPROXIMATELY **18 SX / 3.7 BBL / 20.5 CUFT** OR SUFFICIENT VOLUME TO FILL CSG & ANNULUS TO 2870'. STING OUT OF CICR AND SPOT **4 SX / 0.8 BBL / 4.4 CUFT**. CMT ON TOP OF CICR. BRK CIRC W/ FRESH WATER. POOH ABOVE TOC (~2820'). REVERSE CIRCULATE W/ TREATED FRESH WATER.
8. **PLUG #5, PROTECT TOP OF MAHOGANY (2844'), TOP OF BIRD'S NEST (~2322'), & TOP OF GREEN RIVER (2006'):** PUH TO ~2950'. BRK CIRC W/ FRESH WATER. DISPLACE **80 SX / 16.3 BBL / 91.6 CUFT**. AND BALANCE PLUG W/ TOC @ ~1900' (1050' COVERAGE). PUH ABOVE TOC. REVERSE CIRCULATE W/ TREATED WATER.
9. **PLUG #6, PROTECT BASE OF USDW (~190') & FILL SURFACE HOLE:** POOH. RIH W/ WIRELINE, PERFORATE @ 300' W/ 4 SPF. POOH W/ WIRELINE. RU CEMENT SERVICE TO PROD CSG. PUMP **183 SX / 37.3 BBL / 209.5 CUFT**. OR SUFFICIENT VOLUME TO FILL ANNULUS AND CASING TO SURFACE. (SIGNIFICANTLY LESS CEMENT MAY BE NEEDED ON THIS STEP, THE CEMENT CALCULATION USED IS TO ENSURE THE WELLBORE AND BOTH CSG ANNULI ARE FILLED WITH CEMENT.)

10. CUT OFF WELLHEAD AND INSTALL MARKER PER BLM GUIDELINES.

11. RDMO. TURN OVER TO OPERATIONS FOR SURFACE REHAB. SURFACE RECLAMATION TO BE PERFORMED IN ACCORDANCE TO REGULATIONS.

ALM 11/28/12



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> 14-20-H62-3894
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b> UTE
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> SANTIO 4-191X (RIGSKID)
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 0494 FNL 0609 FWL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NWNW Section: 04 Township: 09.0S Range: 21.0E Meridian: S		<b>9. API NUMBER:</b> 43047404060000
<b>PHONE NUMBER:</b> 720 929-6507		<b>9. FIELD and POOL or WILDCAT:</b> SANTIOL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/23/2015	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The SANTIO 4-191X well was returned to production on 12/23/2015. Thank you.		
Accepted by the Utah Division of Oil, Gas and Mining <b>FOR RECORD ONLY</b> December 29, 2015		
<b>NAME (PLEASE PRINT)</b> Jennifer Thomas	<b>PHONE NUMBER</b> 720 929-6808	<b>TITLE</b> Regulatory Specialist
<b>SIGNATURE</b> N/A	<b>DATE</b> 12/28/2015	